SEQUENCE LISTING

<110> YAN, Chunhua et al

<120> ISOLATED HUMAN TRANSPORTER PROTEINS,
    NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
    AND USES THEREOF

<130> CL001205

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 2434
<212> DNA
<213> Human

<400> 1
```
tgcagtttaa gtgttcggat tccaagggaa acagacaaac ctcacgaaag gaaggaagca 60
agcaagcaag gaaggactg caggaggaaa agaacaggca gaacagcgag aagaataaag 120
ggaaaggggg ggaaacacca aatctatgat tggacctggg cttcttttc gccaatgcaa 180
aaaggaatat gcagcacatt ttgccttct tctgcaccgg tttcctaggc gcggtagtag 240
gttgccaatt cccaacaat atccagatcg gggattatt tccaaaccag cagtcacagg 300
aacatgtgc ttttagattt gctttgtgc aactcacaga gccccgaag ctgctcccc 360
agattgatat tgtgaacatc aggcacagct ttgagatgac ctatagattc tgttcccagt 420
tctccaagg agtctatgc atctttgggt tttatgaacg tacgactgtc aacacgctga 480
cctccttttg tggggcctc cacgtctgt tcattacgcc gagctttcc gttgatacat 540
ccaatcagtt tgtccttcag ctgcgctcg aactgcagga tgccctcatc agcatcattg 600
accattacaa gtgggcagaa ttgtctaca tttatgatgc cgacggggc ttatccgtcc 660
tgcagaaagt cctggataca gctgctgtga agaactggca ggtgacagca gtcaacattt 720
tgacatccac agaggaggga tacgggatgc tctttcagga cctggagaag aaaaggagc 780
gggcggtggt ggtggactgt gaatcagaac gcctcaatgc catcttgggc cagattataa 840
agctagagaa gaatggcatc ggctactacc acattcttgc aaatctgggc ttcatggaca 900
ttgactaaa caaattcaag gagagtggcg ccaatgtgac aggtttccag ctggtgaact 960
acacagacac tattccggcc aagatcatgc agcagtggaa gaatagtgat gctcgagaac 1020
acacacgggt ggactggaag agacccaagt acacctctgc ggtcacctac gatggggtga 1080
aggtgatggc tgaggctttc cagagcctgc ggaggcagag aattgatata tctcgccggg 1140
ggaatgctgg ggattgtctg gctaaccag ctgttcctg gggccaaggg atcgacatcc 1200
agagagctct gcagcaggtg cgattgaag gtttaacagg aaacgtgcag tttaatgaga 1260
aaggacgcg gaccaactac acgctccacg tgattgaaat gaaacatgac ggcatccgaa 1320
agattggtta ctggaatgaa gatgataagt ttgtccctgc agccaccgat gcccaagctg 1380
gggcgataa ttcaagtgtt cagaacagaa catacatcgt cacaacaatc ctagaagatc 1440
cctatgtgat gctcaagaag aaggcaatc agtttgaggg caatgaccgt tacgagggct 1500
actggtaga gctggcggca gagattgcca agcacgtggg ctactcctac cgtctggaga 1560
ttgtcagtga tggaaaatac ggagcccgag acctgacac gaaggctgg aatggcatgg 1620
tgggagagct ggtctatgga gtaagttcac ttcagggtgg gaaattagag ggcggaggca 1680
gagggtttga caggaaatca ttcggtggtt gggtggccct gcccacagat gtcatgaaa 1740
ccctgtaatt gagtgttgtt gctgctgaac agatgagtca tccaaaatcc aatttcttca 1800
gacactcttt gttcagtta ctggtcccag gtccctcaat cccactcaga gtcttgtgac 1860
gtcagttgat tgtcgtccaa cacaggtgac agcatagctc caagatcaat ttcttgagg 1920
cagactgctg agtcgtctat acaaagtcac ttgtggctct ctcagtatca gtttcttctc 1980
tgacattaaa tgcatctgga gccaactaa cttctagtt acttgcctct ctagtttcat 2040
gctctctcat gaaatttcca attcagtcaa atgcccctta attactctgt tccctagagt 2100
```

```
gctccttcc actctccacc cctaagatac tactccttca aaacctatat caaataatac 2160
ttttttcagg gtgtgtttct ttctttcttc tcataatagg tatgaatgtg ccttttaatt 2220
gttctcgcct tcccctatag aatttagttg ctggtttttt ttaatggttt accctgcctt 2280
atataacggt taccctgtgta acaggggtag gactattcta tctttatagt gctcaccaca 2340
cttgaaataa ctccatgcac aattgctata aaatcttcaa taaattacag cagttttgaa 2400
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa                            2434
```

<210> 2
<211> 519
<212> PRT
<213> Human

<400> 2

```
Met Gln His Ile Phe Ala Phe Phe Cys Thr Gly Phe Leu Gly Ala Val
1               5                   10                  15
Val Gly Ala Asn Phe Pro Asn Asn Ile Gln Ile Gly Gly Leu Phe Pro
                20                  25                  30
Asn Gln Gln Ser Gln Glu His Ala Ala Phe Arg Phe Ala Leu Ser Gln
        35                  40                  45
Leu Thr Glu Pro Pro Lys Leu Leu Pro Gln Ile Asp Ile Val Asn Ile
    50                  55                  60
Ser Asp Ser Phe Glu Met Thr Tyr Arg Phe Cys Ser Gln Phe Ser Lys
65                  70                  75                  80
Gly Val Tyr Ala Ile Phe Gly Phe Tyr Glu Arg Arg Thr Val Asn Met
                85                  90                  95
Leu Thr Ser Phe Cys Gly Ala Leu His Val Cys Phe Ile Thr Pro Ser
                100                 105                 110
Phe Pro Val Asp Thr Ser Asn Gln Phe Val Leu Gln Leu Arg Pro Glu
        115                 120                 125
Leu Gln Asp Ala Leu Ile Ser Ile Ile Asp His Tyr Lys Trp Gln Lys
    130                 135                 140
Phe Val Tyr Ile Tyr Asp Ala Asp Arg Gly Leu Ser Val Leu Gln Lys
145                 150                 155                 160
Val Leu Asp Thr Ala Ala Glu Lys Asn Trp Gln Val Thr Ala Val Asn
                165                 170                 175
Ile Leu Thr Thr Thr Glu Glu Gly Tyr Arg Met Leu Phe Gln Asp Leu
                180                 185                 190
Glu Lys Lys Lys Glu Arg Leu Val Val Val Asp Cys Glu Ser Glu Arg
        195                 200                 205
Leu Asn Ala Ile Leu Gly Gln Ile Ile Lys Leu Glu Lys Asn Gly Ile
    210                 215                 220
Gly Tyr His Tyr Ile Leu Ala Asn Leu Gly Phe Met Asp Ile Asp Leu
225                 230                 235                 240
Asn Lys Phe Lys Glu Ser Gly Ala Asn Val Thr Gly Phe Gln Leu Val
                245                 250                 255
Asn Tyr Thr Asp Thr Ile Pro Ala Lys Ile Met Gln Gln Trp Lys Asn
                260                 265                 270
Ser Asp Ala Arg Asp His Thr Arg Val Asp Trp Lys Arg Pro Lys Tyr
        275                 280                 285
Thr Ser Ala Leu Thr Tyr Asp Gly Val Lys Val Met Ala Glu Ala Phe
    290                 295                 300
Gln Ser Leu Arg Arg Gln Arg Ile Asp Ile Ser Arg Arg Gly Asn Ala
305                 310                 315                 320
Gly Asp Cys Leu Ala Asn Pro Ala Val Pro Trp Gly Gln Gly Ile Asp
                325                 330                 335
Ile Gln Arg Ala Leu Gln Gln Val Arg Phe Glu Gly Leu Thr Gly Asn
                340                 345                 350
```

63

```
Val Gln Phe Asn Glu Lys Gly Arg Arg Thr Asn Tyr Thr Leu His Val
        355                 360                 365
Ile Glu Met Lys His Asp Gly Ile Arg Lys Ile Gly Tyr Trp Asn Glu
    370                 375                 380
Asp Asp Lys Phe Val Pro Ala Ala Thr Asp Ala Gln Ala Gly Gly Asp
385                 390                 395                 400
Asn Ser Ser Val Gln Asn Arg Thr Tyr Ile Val Thr Thr Ile Leu Glu
                405                 410                 415
Asp Pro Tyr Val Met Leu Lys Lys Asn Ala Asn Gln Phe Glu Gly Asn
            420                 425                 430
Asp Arg Tyr Glu Gly Tyr Cys Val Glu Leu Ala Ala Glu Ile Ala Lys
        435                 440                 445
His Val Gly Tyr Ser Tyr Arg Leu Glu Ile Val Ser Asp Gly Lys Tyr
    450                 455                 460
Gly Ala Arg Asp Pro Asp Thr Lys Ala Trp Asn Gly Met Val Gly Glu
465                 470                 475                 480
Leu Val Tyr Gly Val Ser Ser Leu Gln Gly Gly Lys Leu Glu Gly Gly
                485                 490                 495
Gly Arg Gly Phe Asp Arg Lys Ser Phe Gly Gly Trp Val Ala Leu Pro
            500                 505                 510
Thr Asp Val Tyr Glu Thr Leu
            515
```

<210> 3
<211> 213456
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (1)...(213456)
<223> n = A,T,C or G

<400> 3
ttcaaagtag taagatacaa aaactgaaaa tggagaaatt aaaagatgga atcattaaat   60
cagagactct taatgttggc agagacctta gaagtgatct ttcctgattc tgttctctca 120
tcttcctatg ctaatgctta ttcttccttt agaaagttcc tacccagtgc ttgctgttat 180
tagagactaa gagttaagag ctggggnctg atggtggcat ttactgtgtt taaatgccca 240
atctctttca ttagcagtgg aaacttaggg tgagtttta gacctctgtt tcttcatcta 300
taaaatgggc atgaggctac ctacacaggt attgtacaaa taaatgatgc aggtgcattt 360
cttagcatgg tacctggcac attcaaaata gtgaataaac attagcctta aaaattattt 420
tagctaatta attaatatat gtgaaagtgc ataggaaatc acaaagcatt tgacctccaa 480
gttgttccta ttttggggtt tcattgtaca tggtcagata tttttacaa atcccagtcc 540
ttatagctgt cactcaagtc caatgatat acagtcctgg tgaggaagt gaagagtctg 600
tggataaaat agcctattca tatggcaaag caaatggag tccaaagtct attatttctt 660
ngctactaaa gacaaagttg acttccttt tcctggatca tctcctgttg gacaggagtc 720
ctagcaaggg gagtaagtca actggtaacg gccaaagcac tcaagttgt aggttgtact 780
gtacatctta gtaggtctgt gtctttatga cttaatccca gaagtcttat cttttttatc 840
tgtaaaacag agctcatggc cacttttacag gtttggagtg aagatagatg gataaaaatc 900
tctaaagttc cttcaaaaac tgnattctgt ggcggctagt ggctgctgct ttgcatttaa 960
caatactatc ctgaacacag ctgatctctc tacagttat ttcagcagaa gccctggtct 1020
aggagagtct atgaagttcc agcttacacc agacatgacc agcatccaga aagacctgaa 1080
agaagcttga atcctctcac tagaatcct gcaaaatgac tcatgtaat gctctgtgta 1140
agtatcctta gtcttttattg tacacccaca cgattctgat gctatagact cctgtggaat 1200
ggaaggaaag agagaagggg gcccatttta aatgcctagg attgaaaaga gaccaccgtt 1260
tcattgtaa aggtagacag ggactgtcaa ataccctggtc aaaatacctg ccagtcactc 1320
```

```
cagatcctcc cttgtttgtc tatctgtcat tccttccatt aggaatgaga aagctttttt 1480
ttttttttcc tttaattttc ctagaaggga tttctaaggt cttt ctta ggaattagtt 1140
gtagaataa ttggccagt ggagctcagg agatatatc aggtagtc atgaactct 1500
agaaaaactg actagatca aggacacatt ttgctgtgg gtattgagga ctattgtgg gacccctc 1560
ca tactaa ttagtgt aacacacatt ccagactc tagtctatc ggctggggg 1620
gctgcaggt tagtcaga aaggcaggg agtttaaga ggacttgttgt gttgcctt 1680
tctaggacaa gtgtagtg tcaacaccc ccacctac cttttgtat agaagaaag 1740
gactttaaaag tagtttgggg aggaagggg attcagatt gagatcggt gtgaactc 1800
aagttagttc tttgttattg agctctagaa ttgctgtgtc tgttgtttgt agggggatag 1860
cgaaagaaaa taattgaggg agaacagagg agttgtgtc agtttgttat aggggagttgg 1920
gaaagcaaca ttccagctag cattaggacg ggtttcttt ccagttgtca gttaatctgg 1980
ctatcagttg gtgttaacgc tggagtttaa gtgttcggat tccaaggaa acagacaaac 2040
ctaacgaaca aaaggaagca agaaagaaag gaagagactc caggaggaaa agaacaggga 2100
gaacagagaa aagaacaaag ggaaaggggg ggaaacatca aatcatgtat tggacctggg 2160
cttgttttc ggcaaatgcaa aaaggaatat gcagcacatt tttgccttct tctgcaccgg 2210
tttcctaggc tggtagtag gtgccaattt cccaacaat atccagatcg ctgagtgagg 2280
ggcatacttg gggaggggact tttctggtct ggctcaaggat tttttttggggg ataggggttg 2340
tgtacctt tccggtact gactgtttg cttggtccc taaatcgtgt ctgcggcaaa 2400
agaagggaag attgtgctta caggcaagca agtggggctc tcctgatcgg atgaaggaca 2460
gagggaagt cttcacacac ggcaacatac cctactcgac ctccagacaa gagcatgtga 2520
aatggagtaa ctatggcttt ggagtgaaaa aaataatagg ctggaaaatg tggtgggtgt 2580
ttaaggagttc aactctattg cttgttagat ggtgcttgat tccatttta atgtaagtat 2640
gtatggtgtg tgtttttcca ggtgtgtgat tatatattac atatgacat atatatgtaa 2700
ttgaaggagg cagtgcttttc tctgctgggg gacagaaaag agacctctca gaagaaggag 2760
ttaggggttg ttgggtatatt gcagccactg aaataaatgcc agaaggctcc cactccaagg 2820
cgggtagtt tcctctcctg ttctggactc ctccagctgc cttctcttttg ctgtctgcca 2880
tgttgcgttg gtggctcca ctcaacgat cctggacctc cctcgcctcc cttttctccg 2940
ttcttcctt gcccctcct cttagatttc ctatccacag aggttctact tttacacaca 3000
caaacacaa aagtacaca tgctcctttc tcctcctgtt ggctctcat tatctttgtt 3060
aataggctcc atcctctcaa cttgaaggca ggtttcaaaa tgctacatgc ttttttttgtt 3120
ccccatttcc ccttttagtc tgttacactt ctcaaaagca cccacacct ccctgtattt 3180
cttagggaa ttaagatat tgctatcct gataatcatg aggcaaagta aaaaaaacag 3240
aagtaatac accatcaca aggcatgtcc acaggcctt gggcttctg tgtgaccagc 3300
aaatcagta cgttgtgtc cggaaggaa acaaggtgct ttgtttgtta ccatctttgt 3360
tgttttgtt tctaatctct ctccctgt agggagatag cttacctagg gaaagttcgc 3420
attgctggaa atttctgctc ttttgtgagt gtgtgttta agggagatgt ggtgcaattg 3480
atatttttttc aggcatacat gtgctgagt accatctct ttcagcctct ccagctagct 3540
ggctggtgg agtggccatg ggagtaactg cctggtttcc tgacacctgt taagctacat 3600
cctgaagtct atacttatct gtgtgttagt gcctaaacg caaacttcc tgccttcagg 3660
ggagacacTt ccctgtagc ccacccacTa gcctctctact tctccacctc ccatcctttc 3720
tcttttcattc attgcagagg aggatgaagg ggacagggaa gtgtttgggg gtgtgtcatc 3780
tggggggaag gggtagcatc ataataaga atctttttt tttt atttct ttaaaatggg 3840
agaacttgta catgtggaaa tcattgctc ttacatgtgg catt tttttac atttttgctt 3900
atataatacc tatctttgt ggcttggaag tgtttgtcta gtatatttct gtatatagta 3960
aatggtatcaa atgcatgagg atgtttcatg tatgtgctat gttttctcat gtatctctgc 4020
atatttttaa aatttatatt agcctaact tgtttgttca actgctaaag ccattgctac 4080
tgtttcaaa aaaaaaagg attaagcat tacaatgtag aacaaaatc tgaaaatatc 4140
aatgaatca gtattaact gattctattt gtgtgatctg taacaaaaag cttgaatcc 4200
atttattgt tgttaaaaaa agacacccac tctacaagaa gttataaggt cattatgttt 4260
ggaactgaat tact tcaaga tttgagataa acttctatgc aaacatcatt atagttcagt 4320
ctctagaaat ggcgatttt aattacagaa aatgcaattg attt acatgt tggacagtaaa 4380
tacaaagtaa agtaatggac tcttgtttct cggaacaggc atcatatcag ggacctttac 4440
tatacttttt actagaatag aatctttgta tcctcttgag atgcattaaa tcccacatct 4500
ttgaaaacaa aggctccacc atgtaaatac acaatggcag tcctttatgt aacaagtcat 4560
ttctactaa cttagatacat gtgtggtgaa agagtaagca aaaattgtt tgcagaaaag 4620
ctagagctt taggaaaat gaataataaa ccttaggggc aatagaatag ttaaattgca 4680
ttgcaggtctt gctaggcaa agactaaaaa ctgtccatgt aaacagttat agtagtggag 4740
```

65

```
aagcccacag ggtcccagag ctagatttca atcaccctgc agcactgatt agtacctact 4800
tccagtaagg ctctctcgtg agagatgagg ctgatgtaag aaaaattaga catgactaga 4860
gggtgagggg gctatatcgt atgtttatat aagagaatag cagctcctag gtggtttgca 4920
caagggatga agtagagaaa tggcacaagt ctcctgtttt ctctgacttt agctgtgttg 4980
aggggtatac aatcaactgt ttgagacaaag taatagatat tagaggccca tgtcacaaaa 5040
aagtccatct gtaggattt aagtgtttagt gttcatttaa gctatttga actctcatct 5100
ctatcactca aggttatagc tagtgacttt ggcatggggt gaggaaaagg actcatctgg 5160
agtcagtcgt gactttttaa aacctgtctc tagcccatat acatgtgtgc atttttcttt 5220
cctcatagtgg gattatttcc aaacacagcag tcacagaag atgctgcttt tagatttgct 5280
ttgtcgcaac tcaagacac ccggaactgtg ctcctcaga ttgatattgt gaaaatcagc 5340
gacaggcttg agatcacta tagatgtaag taattgcttc tatttctgag atgtctttct 5400
gcggtagacc aatgaaagga gggcctatga gtaggtggtg gtgttgcaaa aatgactcta 5460
gttccattc gtcttttgtaa gagaaagccc tccaagaaaa atttctagag gcttctgagt 5520
gattccaaca gttggcatttt tagcccctgc aatgcttcat gtaatggatt tgcttttca 5580
ctgtcagcta actttaatgc cagcacatg ggtgcttggg ttgactgcat cttccctacc 5640
ttgcagatgt tttctgcac agctgagaga gtttttacaca tacgaatctt ctgagaggca 5700
tagaattaag ggtcctgagt ttgtgaaaat gtggtttaaa gtgcttaagg catttcctat 5760
ctacatgtta aaggatagga atgtagtttg ataagaaata atagctgaga agttgtacac 5820
atctggttct tcattttctg aagtgaccaa taattaaaac ttggtgctt ggtcatttta 5880
aaaatagttt gaggaaattg gttgtttaag gcacagtttg taggatggtc attgagcatc 5940
aaacagacca aaggtgct ct caagaacaag ggatagataa atctctgaca tctgaattga 6000
atgcattgta aaatgtgcgc aacaaacacc attctgagtt ttccttgcaa ctaggaatga 6060
aaaggaacc tgtgctcaca tgattggctt ttcatgacag atgaaagcat aaaaattaat 6120
cacgaaacat attttccctt cagggattaa gctcaagtaa aaatttatgg cagggaaatg 6180
tgagctgaat tcacaagaac aatttgagac ccaaactcg attgaattgg cacgatagtc 6240
ttggtgtgtc actattgact tggtgacttc tgctcagctg tctctggtgg aagtcatgga 6300
ccatattcc tttgtgtctt tctcatagtc ccactagtga gttctcaatg atttgaatag 6360
gctatgcttt gaagtctcaa aatgagaagt cagattctt tctatccaa agacactcc 6420
taaaataatg ttgttacaaa ttccaagaac tataattata gcagatttca tttattgaga 6480
acttactgtg catcagaact atgatataata cttttatagtc attatagtc acattcatta 6540
ccatgtatta aacactgact acagcccatg taatgcatta attgcttttt atgtgttagc 6600
tcatttaatc atcacatag cttgcagag tactagacat tatcttcctt ttagagatga 6660
gaaaactgag gctatcacag attatataac ttgccaagg ttactcagga agcaaatggt 6720
ggttttgaga cctgcagtc catgttctg gatactgtga cagatacact aattcttatg 6780
gtaccctaat caactagtgg gattacccaa gaaatgaaag ggaattttca gggtcttgta 6840
aggcagagtt ttaaaaaact acctaaggag aaaaacttac agtgtttcaa actgtagcta 6900
tgatttacac agaattggtc cattgaataa ataaaatagc aattcttcat tttggtaatg 6960
ctgagtttga aattcttatc tactgtgtta ctactaccc ttaaaaaaat agctgaagtt 7020
taattgctca attttagtta tatgaaacta tcttctggg aatctagaat aatactgagt 7080
agctattttg ctattagata acctttcttt actttttaat gtggctttga ttagggtctt 7140
tggaagggg atttgttggg gggcatcaat gtacctataa atgtttaaac gcatatacat 7200
gtgctaattt atttctgga ggagggctcc atagcttttg tcatactttta tagctttgt 7260
attacttgca tagagaatca agaataaata gttggtgtgt gtattcactc atgctgctga 7320
gaaatatcta cagcaggttt tggttaaaag agatgtgaac tgctctccta gtagtgtcaa 7380
gatgttact tgacagcaa gaaaataaaa gacaaaaata ggagaaaagg ttctaaggca 7440
aaggtagtg ctctatcttt gtatctcag caactaaga cttgatctct aatagggtta 7500
atgagttttt attagacaga cagaaatatg atatgacaa tgttgttcat cttggtcaac 7560
aggtctgtg tggatgaatc tgagttcttg aacttgatgc tgccatccat gaactagtgt 7620
acaggttttc atgaattcct gcgttgttg ttcagttaat tctttaagtg tttcttcaaa 7680
gctataaact gaaatagata ttggaaatac agagatgata aaatgccctt gctctcaggt 7740
agcttatagt ctagtggaa acattgttat gggcattatc tgagaagcaa taatcttat 7800
ttgtgcttag acttgtgtt tcttttcttt agctcccaga tcccaaaggg ggtactgggc 7860
aagttagtg gaaatgttgg cctggctgga ggagcctctc ttaaatttca tgtaaggcta 7920
ggaatacttc aggcttctgt tcactgtggt ccattggttt gggaaaactt tacatctgtc 7980
ccaatttaa ttgagtaaaa aatgtcagtg gcagcaaagc agttttagga agaatgtact 8040
cactactgat acatgggaaa gcaagaaaag catcttattc agactaattt tctgtgctgt 8100
gtttttttgaa atctgaatta gtagttgcct taaattaact gcccaataag tcttagatct 8160
```

66

```
agtaaatgac caaattttat ttgttttttt ttcataattt ttgctgtcat ttgatttttt 8200
cctttgcat tttgctattc atigtccctc caccagagtg tggagaaagg aajggagagg 8260
aagtttaata ggaccigttg atgctagact tgttagcacg aggggactaa aaatgatgat 8340
aggttgttat atgtgtaggg aggtgggtgg jacagatgga gactatgtgt actactacta 8400
gccaaggtgt gagtttgtgt ccttcttggt ttcaatctt tctggcttcc ctggcttgct 8460
attgtttaaat agtaaagcac ttgtaatcacg aacaccat cttgggggtg ccttaagcat 8500
ctttttcaat cttacaggggt tagagttgtg aggagattgt catagagagt atatttattt 8560
atcatttact cagcttattt ttgttgcttt gttgttatttg taaataaagg aataaataat 8660
atgcttgattt agattattac tattagaggt cttagtagtg tagttgcagg ttaatttcta 8700
cctttttaat tatttcaccta tttatttcatt catttcattta gcaagtatat actgaatgcc 8760
tacttcatgg caaacactg gcacacacgct aggaatatag gggtcaggaa agaaggacac 8820
gcctttttct ttgtgtagct aacagtttag gcagagggtt cacaaacttc agtgcagtta 8880
aaattcacta agggatattg tttaaagcaa gactcatgat gaactttta cttcttgaat 8940
caagtatttc aagagtaggg cctggaggaa ttctatagca attatatatgg ggattacact 9000
ttaagaatct ctttaatcta aaaagttcttc catccttta gtaagcattt ttgagcctc 9060
aacaaacct aggcataaca taaaagcta caaatgcaga caacagtaag ttgcattcc 9120
cacctggag tactttattc atagtaagac atttttatc ctgtaaagag aaaattaaaa 9180
tgtaatgtg taagtactat agcagcaatt tgtatgaaat attgattttt cctggaagag 9240
tggagtttt ctctaggag tggtgattga attgagcctc aacgataaat agggttatct 9300
atgtgcagaa gtggtacta aatatagcta tcacacaaga aagttccagca cagagactaa 9360
gttctgggcc catacactgt gtaagaacta tggaattcta cattacaact tggacatctt 9420
gtcttaacta atatttttaa atattaaaat atctggcaac actagggcc aagtctatct 9480
agcctcaatt tgctgagatg gaatacagta aaccccatct acatggctct ttttccaatc 9540
agccaattct tcccatttt tttactcgct ggcttgggca aggattggagt ttcaaagccc 9600
tgattgatag cactgcaatg ttgtctgtgt tgtgtctta taggttagct tcacacacag 9660
aatataaact gttgtcagaa agacacatgta tatctatagt ttagtgttga caacacttgg 9720
aaatgcctct aatacaaatg aataaatgtc tttagaatc agggaattac acacacataaa 9740
aatgttcata gcctaactga caatagggtga aaggtagcaa cctaactac agtggtattc 9840
cctctgtcat gtacctaatg aggcagcg gggttctct aacaagacat taggattag 9900
caacagagag atggcattag ctcttgcctg aacatggctc atcaacttca gagttgcaac 9960
acaaatttgt tttttatac ctacacaatg cttcttcata tttgccataa aaatccagat 10020
ttctggcatc tttaaaacaaa aaacttaggg cattaagcaa cctaggccc acattcttc 10080
ttaatttcac ttttctaagg ctgagaagtg ctgccctttt taaatacata aactcccaag 10140
ttaaccaaag ttccattac ttccgtgttg attgctagag taatcaaatt atgttgcttg 10200
gggaggcctg taaggaggcc aatccactca tacctgattt atatcgtcag cattcatcat 10260
tttattatt tgtttctaata atatttatta cttacctgt caaaaataat aaaagacaca 10320
aaagatgtat aactcctact ctcaaaaaa gtagtgtgta tacagtaatg aagagaatgg 10380
tggctgatgg tgggataaac aagaattatt ttgaagacct actatgtgcc aaatactttg 10440
gaggtgttgt cttaagtttt ataactgtct tgaaaggtga ttatccccat ttcattgatg 10500
atgtactga gactgagtga gattgtgtgg tctttatatt atgcaacaaa taaagacctaa 10560
agctactatt taaaacccgt ttggggggta caaaaacttca atgagcattc tcctttaaaa 10620
gatctatgaa tatggccttg gggagtgtgt cacacttgta atcccagcac tttggaaggc 10680
cgagtgggc agatcattag gtcaggagat ttgacaccatc ctggctaata cagtgaaacc 10740
ccatctctac taaaaataca aaaattagc tgggcgtggt ggcaggcgcc tgtagtccca 10800
gctactcggg aggctgaggc aggagaattg cttgaaccca ggaggcagag gttgcagttga 10860
gccaagatca cgccactgca ctccagcctg ggcaacaaga gcgaaactcc atctcaaaaaa 10920
aataaataaa aaaaaaaata cctatgaata aattatagta gaaagtaccc atggaacata 10980
aatagccaag aggtagatgt ttacagtggg aattatgat ttaagttaa gagcctagtc 11040
tttcaaggca gaaattattga ctgtggatga tgaaaactc ttgggaagg tggaattta 11100
gcaggcatta aagtgttgag cagatttctt ttgtggagtt gagtaggggt attttgagttg 11160
ggtaaagtca caatattcct cctcgtctc cctcaaccac tgctgcatat gcttgtacc 11220
atctggttga gatttgttgag ttggcctcct gcaccatact atgttcttgag ctccatgtca 11280
gatgtctaca tttctcttgt taatgttaca gtctgaagtc ggctccttaa tcttcaggcg 11340
tgcccttaca ttaaggcaca caagtgttga cattatcttg tggttgactc ttggttctta 11400
ttataatatt gataatcatc agctttatg gatagaaaaa tccttgtaaa cattctttc 11460
cctgactagt ttgaagatcc tactgggatg agtgagctta ctgctctcct ctcagccact 11520
caggataaag tgatcatata gcaaatttgg aaaactggta agcttcatgt atttgttcat 11580
```

67

```
tcattcattc atccgaaaca cttttattat cacctttctat ggggatatgt actgtcactg 11440
ccccacccca tacctttgta gacagcatta gttcattaca gaatttttc caactgaatc 11500
tacacgtggc ctcaaatttg tgacagctga tgcaagagat gaaatccatt ttcattaca 11560
aggcattgca ctagaaatta agaaaaataa aatgccattag gcattgtttt tctcttaag 11620
gugctgtg ttttataaag gaaatagcca taaaccaaat ctgcctctct ttctctctct 11680
cttctctt ctctctccc ctcttacta cacacacaca cacacaca cacacacca 11740
cacacaca cattcagagg aaggaagaa aacctttagt tggagggatt tagtttcat 11800
aaaacaga cattgagtt gaatttgaa agataggtag gatgtagttg guaaatata 11860
tatgtatata tttgtataca cacacaca ccccacacac cttcctgtaa ttggaggttt 11920
gatgaataa atagcatact gagttgatat ttgaagacat ggattcatat cttggactac 11980
cttcttgaat cgtttaggta taacttga gaaacatccc ctccccaag cttatttata 12040
aaatgaagct catggtctct gagagtcctt ttgggctgt attctatgc tggcagcata 12100
tggaaaacac cagagatata tgattaatag aagttctcta cctttggcta gcaagaggat 12160
cgctaagaa gctaagtgtc taaggaaagc tctagacttc ccttccacca acttgcacat 12220
tcagggcgca ttctgtatgc aaatgctgaa ccattatgcc tactttgggg cttcagatga 12280
attcattcaa tatttaacaa atattttatg agtgcttact attgtgaaca aaactagaaa 12340
gcagcctgt gctcatggag ctcaccagct aataaaggag gctgccatta gatgatcaca 12400
tgaatgatg tataggttgt aataaacaa ctgaaagacag gggcaatgat tctatcaaag 12460
catatacaaa gggaccagct cttcacagctg aatgaataag tgcttggagct gaggagtgaa 12520
gcctttgtg atgcagtgat gtcaaacagga agagtgtttg agaagcttc tggccacagg 12580
cctgcctagg ccttgtagtc tctgttatgg atttttatct ttagctcaaa cactaaagaa 12640
cacatggaag ggtttttaag aagagaatgc cgtgtttaga ttttctttt ttcatcagaa 12700
atcagatgct tgatagtact ttgccaaatt cacattgct gaagatgtct ggcttgtgtt 12760
tcaatggcct tgttcttta cttccatctc cactttggga tggagtctgg cagatgggca 12820
ggaggatgtg gacacagagc aggccgggg gaagctgatg acttggttta ggggtgcgt 12880
gttcatgtat gtggctgtct gttgccat ggcattcct ggaggattcca ggatgganca 12940
gtgcagtgtc tggagaactg gtgaggctgt ttggaggcag ggattcattc agagtcctca 13000
tttattttaa caaggaagac atacatatca ctgaagctca gcctctgttc caatcagaca 13060
actcagtgct cttcaaattc acactgacat ttccttcact tacacttaca aactgctcct 13120
tccatactgc tctgctgaaa ttctgtcctt ctggtcagc ctagctctta tttactttc 13180
ttactgagc cttttttctc tttcatatc acatgtctt ctgccctta tttgtttta 13240
ccatctcct agaatgttc aagcttatcc ccagttttta ctcaccttct cacttgaaca 13300
tgtgtcttac ctgccaact ggattaataa atgtgaggtc aatgacctg tttactttag 13360
cttcccatca cagtctcac cacagtatag tgttcagtgg tgctagatca atgaatgaat 13420
agatggcact gacaagaata agcctgaatc attgctgctt agggtaatac tttggatatt 13480
atgagtttg agagttccaa cagcctgtgc tgtaaatacc tatgtatggt tattactgtg 13540
tagctcaaa gttatggggg tgaaaatgag gtgtaagtcc aattgaaagc tcatttttagc 13600
tccggctga ctattgtcat gaccggtcct aaataaggta taaggttcca tcttctaaat 13660
aaagaatttc tgattcaagc cctgggtttg ccattgatgt atgagccttg tatgcatctt 13720
acgacttttg tgtgtccag cctgctgtcc agacagcaca gggggagccca gggccatggg 13780
aagtcaagt tgaggaggca ggcaaaactg gggcaaatga ggcagttgga gactaatgaa 13840
attgatacc tatggttagg cgtgttcca tgtgttcatt gtttggaacc tctaaggatga 13900
aaataaagtt tgagaatacc ctttagtttg tctacaaaag taatatatac attacagaaa 13960
gctataggaa cagagacagc aaacacaata aaacttgtat aattatagta ttaaggatac 14020
atttcactc cttttttgaa cctaaacatt taaacattaa tagatttatc ctactgtctt 14080
ataacacat ttttttgcata ttacaaactt tatgctactt ttattattgc acattcattt 14140
ttaatgtttt cataaaaccc cactgtcat atgtaccata atttatttaa tgtgtctcct 14200
tttatggat atctagtttta tttcctttt ttcttaaaa acagttctgt aatatttttc 14260
tgaataaaat tttaatcatt tgtacatatt tgttgtgat tttaaggcaa ttataaaccc 14320
agtagaacaa ttttcaatga aattgattaa aatttctagt atgtgtacaa ttgagataa 14380
cttgtttaat gttagttctg acattgactt gctgtgtaac cttgaaaagc tttatatcc 14440
agttagtttt ccagatgtat aatatgggggt gctaatactc gattctcaaa cttattagaa 14500
caggaagtg ccattatttg tatgaaagag cttgaaaaa taaacatgc taggcaaacg 14560
caggtaata taattaacca ggcttcttat ctattagtat aaatgcacat aagtaaaatg 14620
taacaatta attttagtg ttttcctagt aagtgttca ttaccataa atgaatctat 14680
tttatggata gggaaaattg aaatcttaag gctaagtttta tccaagatct aaatatatag 14740
ctatgctaag tctgaaagca tttcttttca tttatgattc aatccatgaa aatgaacgaa 15000
```

68

atatgtggat cataagagtt tctttgtctt aagaaattat tgtttataga aataagggg 15465
aaagccratt tgagcagtaa gcagtcagga ctrtttgtgg caagtgacag aaacccaact 15100
aactggrtag ttttaactto agrtatrgcc aaattcaagg gcttgattga tgtcatragg 15140
actgagacat gcctrtraga ttttttatrt tarttttrtt ctaaactggc ttractrtra 15240
gucatrgata tgtratatat carat tar cartracaag cttcacctgr cor ctacaa 15300
gtccagtgga aagrarartt ctrttt at rrgrtcra caaaagt ggrcctrgatg 15570
trartgrata aaartragra carat rtcra ttrotracr a tgacacrgttt grraggatat 15970
tgtagtrctt tgcttgacrat ggractragt aartcattrat ttttagarct tgrrrtagtg 15440
agaagaarca aaarattgtg gattraror ar ccaccaa aactcatargg acratggggga 15540
gratraatto cctrararr aarcarratg ctrttrccra aagraatggag attrgaatgct 15650
trgaggraa aatagrtata trartatrtt trtgrrtatt aagcatatat atatatacac 15760
tatctatata tagrtgtaaa tgtrtattcat grtrtartttca tgtatttratt grraataaat 15720
acatttacte tctrtatata tatatrctat rtatratatag atgtrccrcca ttgcacatct 15780
tttcagaaaa gaaaaatcag acaggrtgga grtgaacaaa tacagacaaa aagtcaacat 15840
gctaaagtca gaagagrcac caatgagaca argcacataca agggattctg gtggrtaagt 15900
caagatraga agtraggraca grraaaggt ctgaaattca ggrttctgag ttaatcaaag 15960
ctataggggt cttggttaat ccttgtrcrag crracgagcaa arctgtgttc acagacagt 16020
tagaaagtgc tagrcratrca ccrararraga agrgrtggtrt agatggtrtr trrrrrcrac 16080
tctgataata agttgaggtt grrggtgta aartgtttrg trtatcctgag grarrraatac 16140
tctgtrcrag tgrrcrcagrac attrcttgct crractraaac artcaagrtga trgrtrcaca 16200
actctttaac agtrccagtt grraatctttg ctgraar t gatgagrcra crrcgrcrcaga 16260
tggtagrtto tcctaattgg ttrcrtrcrr trtagttttt grraggaacg aaarrttrcc 16320
tatarctgaa gaggrgacag grragrgrcag gatrcaarga argraggcttt aactcatrtt 16380
aaacaagcag agatrtcaag ctggrtcctg trcaaggcaa arcagggcagt argrttcttt 16440
tacataggtc atrgatttac aggrgrtrcttga tatrctaaga craacactga tgaggcacaa 16500
gactgtaatg attgaaaart grtttactra craragtcaa ctgatttggg grraggtgca 16560
cttgttratt caataattga trattrtgcra grattrgtrgt agatgagatt attatttggc 16620
aattatttct ctttrcctca aactcttrtgg garrraaaata taacttcctg cttcattaat 16680
atrcacattg grtratttrc atrctrtrgrc aacttagrta ttagrtagata tgtttgaagc 16740
agrgattatg agrragrrcat grccrarraga grtrtrctrgt ctcrataggaa argrraaaac 16800
agtargrtaga agrtgtrcrag trrrcrcrata rrrccactac taaagtttga agrragagcta 16860
trrcragrtga cctgarraatc trtgararatt crrtrgararatg ctaatgtta tatrccactg 16940
aaattggaaa rgtrttgttt tcrrrcrrta rctrcrraat agaagcaacc agrcgrtgtt 16940
ccacactttg ctaggractg argrragcatt grraatrrcra gacataqrtcc trgartcrat 17010
ggagcactat tgtagrtagg aagatagaca atgrrtracat ttacaaataa aatatatrta 17100
ragagatcat tactrrggtc atrraarraa rraggatgtag tgrcatcrcrc rcrtatggtag 17160
agaagaacac cttraragta agrtgrtrrarc graaggcattt caaagrraggt grcttctgag 17200
atcarrtrata aaagtrtggaa gagrragcraaa trgartrartaaa trccrctgtg grratgtrtgaa 17200
atccagrcrcrc atgrgcaact tgrrrtrtcaga atrtrrtrtrtrct aggcagagga grraatragrtg 17340
cctrtrggaaa arctrcctrtgca aartrargrtrca rtrcarrttrtrc ttaggrtraga rractrargrtrtrc 17400
tctrtrccrac atcacattg raagtrcaagg grctrggrargat cacttrctrgc rcaagrcrttraga 17460
trgtrctrcagg crattrgraagc crcrtrargrrrat agraagrcrcag agragrggrargrrg grtrtrtrgrtrargg 17520
grcrtrtrctraa crarrtgragrrtg atrgrgrraattgrg rtatrracttct rragrcrttrgrgrct crcragaatract 17520
raagagrttrgt trctrtrtrttrrg rtrtrcrgrraaga rrgrrgrtrrargrt grtrgrtrgrtrgt grtrgrtrgrtrgrt 17640
grtrgrtrgrtrgt grtrgrtrrtrt ararrtrtrtrartrtr rtrt rtrttrracrr rrrrrrrrrrrrrr rrrtrrrrrrrtrrrrrrg 17700
rrrrgrtrtrctrra grtrtrtrcrrtrtrrc rrrrraartrtrgrtrt rttrtrtrararraa rrrtrtrtrtrtraarrg rtrtrtrraartrta 17760
tgrtgrtrrargg aaartrtrtrrrraa trtrgrrrrrracrt rrcrrrrtrrargrc trrtrtrtrtrtrgrcrraa rrrrt rracrtrtrtrg 17820
ttaattgragrt trgrtrtrraartra rrarraarrrartrc trrcrttrragrc rrtrcraargrtrta rrgrtrctrcragrcra 17940
trecrtrraartrct rrtrrtrtrggrtraaa rrgrtrtratrargrg rttrrtracraca rrtrraarrrargrrag raararrrargrraarc 17940
atrtrraartgrcra rargrcrtrtrtrgrt trrartrtrctrcra rrtrcrragrtarrac trtraaaargrcaa rrraartrgrttggrtrg 18000
grtrrrarrtrgrraarg rtrcrracragrcrrbrc rrgrtrraatrtrtgrtrtrg trtrtrtrrgrraartrcrc aartrtragrtrttrta rrtaagrtrtrtrgrtrtrg 18060
rraaaartrtratt traartrtrracrracr rrtrgrrrrtrtrttrt aartrttrtrtrt rrtrttrrartrtrcraa rrtrrrrtrtrtrggrgraa 18120
graartrcrttrtra aaartratrtrggrttrt rtrgrrrcaartrgrtrtrgrt grtrrtraattrrrracrg trrtrtrtrgrtrrrrrrrgrrg raaacatrtrggrcra 18140
grgrrraargrcrrg grgrrcrarratrarrcrar trtrrgrtrrrrcraarg grargrttrtrraartra trtrrrrtrtrrgrtrrarrg aaacrtrttrraartrt 18200
rrrrargrtrttrtrcrc trrtrrrtraartrrracrr aartraartrrcraaararar artrarrrrtrrtrtrrrgrrcraa trrtrtrgrtrrrtrrcraa racrtrtrtrtrrggaart 18280
ctcrraartrrrartrt trrggrrargrctrg argrrrrrrrarrgraga artrtrtrctrtrtrraa tatrgrrrargrgrt agraargrttrtrgrtrcra 18360
grtrrgrrrrrrtraarg atrcraargrcrrrarc trgrtrcrractrrrrrarg rratrrrrrrargrraa agagrtrgrrrarrc trcrtrtrtrctrcraa 18420

```
aaaataataa taataaataa ataaaagatg gtttctatgt tgatgtaatg aaccaagtat 18480
tctagggtta tggaagaatt tctcatcagc aaatccagct acttatgtct ttgttttcttg 18540
cagtctaggg ctgatggaag tcttcacacc ccttccaaga accccacaa acattccacc 18600
accccacat accctccgaa gaatgaagct ttttgggtct atgtttctcct caacaccacc 18660
ataggggtcc tctctccacta cttctctgct ttttttctca ctagcatcca cccttttccc 18720
agtattccag cctatacatt ctgtgttcaa catatcaaaa ccagacttg gcatccttcc 18780
tgctaaactc attgctctt tctcactttta tttctgttca atattccagc cttaaaatct 18840
ggtigtctgg ttttaactcc tccttatatt caatattatg tgttgtttc accaccactc 18900
tgactgagt ctatcccaat tttctttcttt tctccactgaa ttttgtccttt tgccttctga 18960
cttccatctt catgatataa tccacttaca ggttgtggta ccatttattg aagactattt 19020
ctgctaatca agcttcttgt ctccaaaaaa tatccagtggc ttcccatctt atttttaattt 19080
caaactcaga ctaaaatatg agtgtctcca taatgggtct ctgcctgcct tccttttgag 19140
actitactaa accctacact ctatgttcca ggcaaactag actacctagt gttgccaaaa 19200
acatgcctct cagtctttca ctgctttggt catactactg attccatctg aaatagtctc 19260
tatcacattg agcaccact ctctactaaa ccctggagat accgcagaaa acaaaacag 19320
caaactcctt gtacccttgg ggtttacgtc ctgggaaaca aatacatata atgtatttcaa 19380
ataatagtta aatgtatacaa acataggcaa atagagtcat ggtacagaca gtgagcttta 19440
gtggtacatt agatgttgttg tcagggtgga caggtatcaa ctgaagagat gatattttaa 19500
ctgtagccttg ttgtaatcca tagcacttttc tgcagtgttg ggtgatattc tatatctgtg 19560
tctgtctaata tgtaggcaact agcacacatct gcccctatta cacattagaa atgtagtgag 19620
catgactgag gaaccaaatc tttctatgtaa tttaattttt attaattgta atttaaaaag 19680
tcacatgtgg ctagtgactg tcatattaga cagtgctaat ctagattcta gaatatttca 19740
gataagaaaa aaaaagcagct aagcataaag gcttttaaatg agagtgagtg tatattcaaa 19800
gaacagaaag aaggccagtg gagctaaagc atgtgtgcg aagagacagg gtattttgta 19860
agtcatgata agaaattgac atggagtttta aatgaataaa aatcactaat ggattttaag 19920
ctttggaagtg tagtgatctg atttaattttt caaaaattta ctatggctcc tctgtggagg 19980
aaggagaagt gataaattga cattgaaaaca gtatgtgttca gtcagttttt ggtgcataac 20040
aaataacatc aaaaatctcag tggtttataa caaaagcttt tttaaaaaac aatcacatct 20100
gcaggttgca ggctgcagtc tgtaggtcaa ccatgattct gattcacctg taggatagtt 20160
taggctaaac tccaggagtgg ctcaggtgtg cccgatgtgt cttttgtttg gtattgatgg 20220
tcaagggaca gcagctaaa aagtacctgc tctcctttc caggagcaca agaggctaag 20280
ctttacatg caaatatatt taaaacttct gctgatgtta tgtttctctaa tattccaattg 20340
gttcaagcaa ggtatgcatc taaaactaat gctcattggg cagaaaacac actctgtctt 20400
ctaaaaggta ttacaaagtc atattacaaa aggtacaatt gttaattttt atacaacatct 20460
ccaatgtaac acagagggta ctggggaggt tcctactata gctggatua cagatggtgg 20520
tgcttggaa aagtcgttag tagaagagat gaaagagtga aaattcataa agtattttga 20580
agaaaagtatg cacagaattt agtgagagaa ttaaagtaaa gtatgggta aagaaaacag 20640
accattttcc aaagtgcttc tcgatgctaa ctacagctt gtgaagctcc ttctccctcc 20700
ctcaattgca gctgattttcc tttcctctta tctcactggc tctctttttt gtgctgcttt 20760
tattggccca ttttaacttt ctacettctg ttcttgaaag gtttatctta ttgttaaagc 20820
tttgaggttg tgaggggaag agaataaaat tatttgtatt tgcaacccaa ctgcctagtg 20880
aataggctca ataatatttc ccaggggaat acaatgttta agagcaagga ctttggagat 20940
atcatcctca tttttggatct tgtgtgatct ttataaatga cttaacctct caaagccttg 21000
gtttttattt ataaagtggc agtaatcata cactccttct aagttgtgc agattgaagg 21060
agatcaactt ggaaagtgct tatcataatg cctggcatag agtaagtacc cgataaatja 21120
gaactattat tgtttgttta attaattgtt ttgtgatagc aagctttttt ggaaatgcac 21180
tccaaagtct ttatcagata atccaatgtt cttcttcaaa tagggagaca agagaataaa 21240
aacactctgg atggattttt gtaatttagt aaagacatct ctagatctaa agtctctttg 21300
atctgaaaat gacagcaaca accaaaacc aaaatagagc catttgcta cttgtttcct 21360
tttaacatct gccaaaatgg tttttttttag ttctctaagt ctgttgttgga gtcagctgcc 21420
ttaaaataaa aaaataaaat cttaaatctgg tcttgcattt atttggagc gagaagacua 21480
aatgcttttaa ctaaatatat agttagttgc tgttcagtg aaatataggg caatgttgac 21540
taaagtgttt gaggaatcaa ctgctctggg aaactgaatt ttaggataaa actgaggatt 21600
aatcacaac tgactttttt cttgtaaca tttgtaattg agacagtttc cgacatgtac 21660
tttccaagtc ttctgccct actgagatga cttttctgat cttagtttaa agttgcctg 21720
atcataaata tccttgaaat ccagcgggca ttgttgaacag agatgtgtctg cgattgcaga 21780
tgagaacaga aaggttggg gttgaaatcgc tgaaaaagag tgcatgaaag aggtgaaaag 21840
```

70

```
ttaacatgat gagtttggat atctgcagga gggtttctcc ggagctctac aagatacatt  21900
tagaaaaata ggctgggttc agactagaga agtctttgta ggtaaggaat aagtatttga  21960
gagacaaaat aatatgttta agttgcattg ttgatattca aaagtgttg tttataagca  22020
aataaaggat ggtttatttt agaagtact agaataatcc tgacaaaa taaagttacc  22080
ttaaatcaaa ttaatgaagaa tatccacatt tctacacaat gattctat gggttcattt  22140
ttaaagtgtt ttaggagtct atttagtcag tgttcctat tagaactttg atgttctgag  22200
gatattaata gattatttgg gtagcattgg ggttgatgag ggaaggttc atggttataa  22260
aattagtcat ggtgattaag ctagtataa gggtgtgtt gtttaatat tttgaagacc  22320
cttaaaatg ctaatgttt ttttaattt ctaaaaaaaa gggatacagta tgtatttc  22380
aaattagtc cctctgtagc ctcacagaaca gggtgggttg attttttt gagtgacaga  22440
tcaatgacca caagaagga gtattttaaa aagggatttt attacttta aaaagtaagg  22500
atggctaaca ctaagaatag ttccaaagc agtgctcc caataaag ttaaccagg  22560
gttttattg acctgttgg ctgaatcatt gtatgtagag gttaagtaaa ggcagtgag  22620
gttaagttgc agcacagat cgtgctttta tacttgtggt atgtatagga aatgttgaat  22680
aaggtctatc ctagatgggg attttagtac gttaataaag ggagttcac aaaattcatc  22740
tccaactcag ggttctaac cagtttttgt ttttttggt tcttctgga atttttttg  22800
aaacaagac ttaagtgca acagttacaa gtgtgtaatt ttcattgtg tgtaccaac  22860
aatctggga ctttagtta taactctttt tgctgaatt gttaataatg tcttgtgatg  22920
tttaatctg tttacatat ggtgaaaata aggctgagat catacacagg gatttatctg  22980
cattagtta gtagcaggt cagatcta acacagaat tttgatacatc accaaggcc  23040
tctactctt cttaggtttc tgttcaatttt tggagccagt cctttaaaa gttttaccca  23100
gatcaaggaa ttgccggtga tttcagaaag aactggcaaa cttggagaag gcacttgcca  23160
aattggctca ggttggcctt ggtgccatgc ttctttttct tgttcctgca aagccagttc  23220
tagttaacct aactgcagat gtctacctg aaataacac cagtctttgt tacactgctg  23280
ttacacaaa acaaacaaag caaattcgct gcaaaaagag gcaggttgaa ataaattatt  23340
tttagtgcaa catataacgt caatgtcaaa aatacgaaag agttaggttg catagggagg  23400
ctctagggga gatgctgaga ttcagtgttg aaggtgacaa gattagagag ggaaagtttg  23460
cctgttcct gaggcagcaa aattaatttt gcccaggcc tttaactgag ggaacaaat  23520
ctatttatta caaaaattat aagagagatt ggtgattgac cctacttac cttgagtgat  23580
tggacttttc aacgcagttc taggaataat agtgtcatat ttatagcca tgttcaggtg  23640
gttgaaaata ttgaaagata tttcagttaag gaatggttg acttctcag aaggaaaaac  23700
ttagtttgg attttatcat caaacttcta aacaaatata ttttgaaggg tactacattt  23760
tctatggcc aagaggtcaa aaacacagaca aagtgaatac aatatttct ctggcagatt  23820
ttgactccac acgagagagc ccattctaag catgtggaat ggttagtgc gggagggtt  23880
cccttttctt agtttgaaa cttccaatc aacatggtgt ttaaaaact ggtcctttg  23940
caggaattgct ttacaattc tacttgtatg acccagtgtc tgtgatata ccgttagaaa  24000
gtcatataat ttcgtttaaa cttgttctct ccagcatcgg ttgaatagta aagacaaata  24060
ctcctgacca tagttctaat ttgtgtgggct ggcactatg attaattgt gccctccaa  24120
aatccgtttg ttaaagcct aagctcagc atgatggtag ttgttttagc tgtcgtcatg  24180
aagatgtcat ccttataatg gattaatact ctataagaga caacagaata cttgctctt  24240
cttttttct gtgcacatgc accaaagtaa ggtcatgaga aaaacagca agatggcggc  24300
cattggcaag tcagaagag aacctacca tagtggcacc atgatctggc acttccagtt  24360
tccagtactg caaaaaaga aattttgtt gtttaagtca cattccata gtatttggtt  24420
atggatctc cagctaacta acaccactgg taattaagt gttctttcca tgaaaaatca  24480
aatgatttgg aatacgaagc aaacagaagc ttaagcaaaa gttacaaag gagtgcattt  24540
gtttaaccaga ttgactccta tagagactag acctggagtt tttacagttc tgctgaggtc  24600
ttgccctatg ccaacctcc ttcacttct cttcatctca cttgacaag aaaatatgca  24660
cttctgttat ttacaaatac tctgaattcc ccogccaacg caatacacog ggaaaacta  24720
atacacgcag aagagtgtag ttgatgcaag gggtattgg tttttctcag gaaaaaggtg  24780
ttgattttg acaactcta tcttgtctc ttaatttct cttactagtt gagccacagt  24840
gaagtccaga taaaaaaata caaataggag aatcaggtt aaacctcagt tttgtcgctg  24900
attaaacggt gattttggc aacccactga tctgttctct gttcagtt ccctccatga  24960
cgctgagtac tttatagcc tctattctcc catatatctc ttttgaagag atcataaaga  25020
gtagtgatta tgattccaga cttttactgtt actctcaaat atcacattaa tttcctcagc  25080
cactttaac ctgtgcaac ggaggcaaaa ttttgtaata tctctgttc agtctttata  25140
ggtgtgcaaat ggggttatata acaatcccta tcacaagag ttttacagg catggaatga  25200
aaaattgctt gtgaaatgct gagtgtaagg cctattatat tcagtaacta ttacctctat  25260
```

71

```
tttngttcaa caccattttg cagtctcccc caaacaccct gctgcaacac acctctaagc 25320
cttggctatg ctggcttaau aaacttctag acagccttga tgaccaaat gaaaatcttc 25380
tgaaccaag gaatgtttt ctgtgtgt aggtggcaag cacacacto tcaaggagt 25440
aaaactgtc ctttttaa ccattattgc ccataaccca tcctgttgt atggttttt 25500
tacaaattg tcttttgtt tcttgcttc tgggtttata tgcaagaaat cactatccag 25560
accaagtca catggttttt ccctctatgtt tttctcctgt cgttttacaa tttcaggact 25620
tacattaag tattttttc atttgagtt gattctttgtg taggggatga gaaacagtca 25680
caattcaatt cttctgtgtg tgaatagcca gcttttctgg cacattta tgaagaaaca 25710
atctttcc cctgtttgc tcttggcaca tttttaaaa atcagttaat caacagacttg 25700
tagtttatt tctcagtgt ctatcctatt ccatggtct acatatctge tttatatc 25960
gtacatgt gtttttgatta gtatatcttt gcaatatatt ttcaaatcag atcatgtat 25920
gcctgcagt ttottttttgc ttaaaattgc tttggctgtt tggggttttt tttgtagttcc 25980
atacaaatt tgtgattttt ttctattttct gtgaagaatg atatttggaat tttgacagag 26040
attgcatta acaagaaaat taataaccct attaaaaatg ggtaaaagac ttgaatcaga 26100
attcctcaaa agaaagtata caataatgga caacagatat ataaaaaaat gttccacatc 26160
attaatcatc aggaaaatgc aaattaaaac cacagcataa tatcacctca gacctcttag 26220
aatggtatta tcaaaaaaat gaaaaaagc aaatgcttgt aaggatgtga aaagaaaagg 26280
aaaacttgt atctgtgtag aaatcatgta acttattgcc cttagttacc aaaacaatat 26340
gaaggttttt caaaaaatta aaaacgtaag tatccttatt caaccaatta aattatgtta 26400
aacatctaaa gtttctgttg tatatctaaa gaaattgaaa taaatatctc aaaaaatat 26460
ctgcactgtg atgttcattg cagcattatt tacaatagtt aagatatatga aaaaactaa 26520
atgccaatca acagattta ggataaaaaa atgtggtatt gctacataat caaatactac 26580
tgagacttta aaaaaaaag aaaattctgt tatctgtgtac aacatgaata taactaaagg 26640
acatcatgct aagttaaata atccaaccac agaatgacaa atattgcatg atctccattca 26700
tatgtgaaat ctaaaacat caaactcgta gaagtaaaga gtagaatgct ggttgcagag 26760
gctggggctt tgaggccatat gttggtcaaa gggcacaagg tttcagttag acagaagaaa 26820
taacttctgg tgaatatctg cacaacaaag tgactgtagt taataatata ttaatgtattt 26880
caaaattttt aaaaagcttg attttaaatg ttctcaccac aaagaaatga caagtatgtg 26940
aggttatgaa tacgttatt aggctgattt gttcatgcca caatatatat gtctatcaaa 27000
agatacaact gtaaacacaga aatagatatt attgttcatt taaaaacaaa ttttttaaaa 27060
aggctattt tcttgctgaa ttccacatat ctctggccct aggttagatg ttttttttaa 27120
ccagatttg tccagcttag tccacgtttc aataagtatta aagtgtctta aggttgttca 27180
atagacaac agatgtaagg ttgtaatagat taatagaagt ctaccatatc taggctggga 27240
gtaggggctc acacctttaa tccagcact ttgggaggcc aaggtgggcg gatcatgagg 27300
tcaggagatt gagaccatcc tggctaacac ggtgaaaccc tgtctctact aaaaatacaa 27360
aaaatcagcc tggcgtggtg gcgggcgcct gtaatcccag ctgctcagga ggctgaggca 27420
ggagaatcac ttgaacttgg gaggcagaga tttcagtgag ccaagatcac accactgcac 27480
tccagcctgg gaaacagagt gagactctgt ctcaaaaaaa taaaaataag aaatctacca 27540
tatctacttc taggccataa atatgataac tatttctttt aatttcccat ttgataaata 27600
actgtttata aacatctagt tgctagaccc atgcttggag tctcaggtct aaaagaaatg 27660
ctccccattt gctctatgtg ctagtcacat caatcccact tgaatccaac aaaacacttt 27720
gggggtaaaga gagtagttga taatctgatt ttaccaatga acaaagtctc agaaaagact 27780
agttgatcc aaaaacacca cacacgcattc taatgttgta aaaataccctg gatttgagtc 27840
cctataac tgatgtttta tagtgtggca ttgtctaga tacttccctc ctctgggatg 27900
tggactggc tttgaggttt ctttaacctc tcgaatcatg ttagctggag cacctgttgg 27960
ctgaggagac aaaagttgc tgtgtccaga tctccttca cgaggagaa atatgtctgc 28020
acttttcata tcaaaraact tgggcagcat gaigggctat tgtgatgaca ntgatgaatc 28080
ctccctgtac tggtgctca gcgttccat gccaatgag ggaagccaaaa gaaaaaaaa 28140
aaaacaaaa atcaacacg aaaactagc ttgtctaga gctgaagaaa aaatatctat 28200
tgatggcaac attcatcgcc gtattatgaa gaaaacaaa ttcataaaaa cctcagcttg 28260
gccttaaatgg ttgtatctta agatgaatga caaatcacga aatatttggt atgagagaga 28320
gtcaggaggt gagggtagga caggcctgc aataagatc acttattgt aagatacatt 28380
caccaaataca ttgcacttag ccatgaagga aacccacaca ggcctaggag ctgaggagaaa 28440
ctttttttgt ggttctcaca ttocacccag tacccgagg cgaaccag ctgaggaaaa 28500
acatcaactc tttttctaa tattcaattg aagtctgttt cagtttctg acagcatcca 28560
gatcccaga gtgctagaat ggcttattt ttccatccac ngcctgctga ctgccccctc 28620
ttttaataca cctccccc caggccttgc ttccttcctgt tttgtgggga gcagaacatt 28680
```

72

```
tcagcttcca gggtagtaa ccactagttc tggtaagcac agctttgaaa atcaggggag ..710
g.accctcaa agaaccatgg aaagtccctt gggccctcag aaaggggagg at.aaa.taa ...
g.aaggaaa cacacatgag atatggcag atgggagct aagtagctgt gggagctcct ...
tatataga tc.acctag agattcgttc actaatcca cagaataatc cttgttct ....
ctttttgaa cc.caatca ta.ttcatca g.aagtctgt cagtgctagt ta.aaa.tat ....
aattt.aatc catcattt tctt.aaaaa attctacc ataacccgt at.ctcaca ..060
ctgtgtctt ttc.cttat cat.cacta abctcctacc ctgtctctt gc.tcctcc ..000
a.acaatgtt cc.cctctct gct.aagtca cttttaat ctattgact gaacattcca ..160
t.ctttgct taa.c.aata ta.ttctcct tcttggct acaaggccc cctaacct ..20.
gtctctcct aa.cttctc ctc.ctct tctcatgtt ctggattca gccttctagg ..0.0
cctttcttca gttcctaaa caggcagca tgccaggag tttgactg ctgttcctt ..440
t.cctgggat gcggttactt act.atcatg ctggctctat ttcactatt agttctcaat ..400
tcccacgtta ctttct.aga gagtgttcc tgacacttta atctaaagta aatttctaat ..460
tgcctctct tc.aggactt caacatctt caaaggcatt ttttt.aaata gccacaggt ..520
ggtactaaac tttgaagctt ttt.ttttata attagtaccc attttgcta cttacttgta ..580
ttattcaatg tctttttta cttgctcagt gtaaggcca caacaaaagg atctgtttct ..640
tattcgttgt atcctgtctc tagtctgggg ttagcacaga ctaagtgctt agtagacatt ..700
tatctggtaa cc.cataaat g.atgaatt ctgaattgcc tattttttc tacctggatt ..760
tggactcagc cct.ggga. ca.acatgaa aaatacaaag ccactactct gaagtctctc ..6.0
atggctaat gctgggtct gaaaactgag tgtttttcag attaaaagc actagtttca ..6.0
ggattaaaag tattgataatg tatattatta atcatgtgta tacatgtaca ataataataa ..940
tagtgacaa acttgacca ttatgtgctc agcactgtac aaatatttatg caagcatttt 30000
tttt.catata attgctacaa taagcttatg agttagtatt atcacatttta aaat.acataa 3006.
aaatgcattt ggcacatgta gaaatggaga tactgcgagg ttcaaataac tggcgcatg 3012.
ggacagttag taagtgctg agtgaattca gcctggcatc gtgctctatg tcaagagcag 30180
tgctctgaag cactagatca gtaattctca aaagatgacc gtgctggact gatagactca 30240
gcatcacatg gcaagctgtt agcaatgcca gttcaagccc aggctacgtg gcttacttct 30300
gtaatccag cactttgagga gccgaggtg ggcagatcac aaggtcagga gatcgagcac 30360
atctctggcta aaccctgtc accccctctc tactacaaaat acaaaaaatt agccgggcat 3042.
ggtggcgcgc acctgtagtc ccagctctca ggaggctgag gcaggagaat cgctgaacct 3048.
gggaggcgga ggttgcagtg agccgagatc atgccactgc actccagcct gggcgacaga 3054.
gcgagactcc atctcaaaaa aaaggaaaa aaagaaatg caattcgag catctcaagc 3.60.
cgacactctc aaatccaaaa ttttggagtg gggctctagc actctgtttc aatagcatcc 3.66.
gcaaatgatt ctaaatgtc tcatcaaatt ctgaataaca ctagctattg aatacctaa 3072.
tttttatggga tactagatca gactagatca gagtctgaag tttttctgta actcactttct 3078.
catcttaacg ctgtcactgt aaattgctct caatccacag ctgaacacc cagattgtga 3084.
ctgaataaag c.acttaccc tgctgaccc tggctccagg acctggacga tgttaaaaat 3090.
catctaggag tgcagccct ctgcagacag cttgcctgta gggctatggag tctgttacc 3096.
catccacctt gagaacatg gttcaaccag caaaaggaaag acagtcctag acaatgaaac 3102.
atcatcaagt cttctctgtag gaatacttca tatcagacca tattggcatg cgttcaagat 3106.
tattatataa tcgattataat tagtacacta gcaatacaat acattttgat tacactttttg 31140
acaatttcaa ggcatgctta tattctaata atctatcttc cctcttgata atttatttt 3120.
ctctttaaa aatctctca gttacacaaa ctagagtaag agtgaaaaga ttgctctatct 3126.
attaatctgc ctgtctaaagg tacaggcaaa gtaaagagat gtatctgtga tttcatgcc 3133.
tggttagttc tactataaa tagttaatgt gtgttacttc tgcttaagtgg ctcactctct 3138.
ttcttagata tgtactgttt tattaattta a.aaaactc tagatccaag cactttacac ..440
tcctcactgg tctcattca caaacagtgt tctttttctt tcacctcact cttgaatctt ..4..
cagactctct attcattcat ttattttattt catctaatt ctatttatct tataatatct ..560
acaacaaagg ttaaagggca agaggtgtaat gtgctgctcc acaaattgtct agctctctca ..6..
ggttgatcca gcaaaatgca tttcacacca cagtgctagcc ttgaaggaca aaggcaattt 3166.
attagcaaa tcaaaagttg ctagattcaa gattctctgtc agtttcttga ggtttgagtt ..740
tgctgaataa gcaacaaagg ttgattttctt ctaattaaag acagggacaca aaggcctacc ..600
tacaaaaatt gctgcaacaa attgaggacat cattaaaaatt gcttttgtgg tggcccatgg ..660
atctggaagt cagtagatca cctgtgtgca accaatggac ggaatcaaag ccagaagact ..720
tggtagatca cgtgctagag cttccatagt tctgttcctt acaaaatgtgt taactctggg ..730
ccagcctccc aacctattca acctgctgct tccttctctca tgaaataaga agctggattt ..640
cttactcacc tgattcacag ggaaccctctg aaaaatcaaac gtaagaatta gtaatagtaa ..100
```

```
taataacaat ataaatagct aacatctatt gagcaattat atttcttact ttcactggct 3....0
tattttattt aatcatgaaa gcatttccat gtagcagata atgttttagg ccccagttta 3.....
tagatttataa aaacagaggt ttagtaaatt ataagttca cccacccttta acaagcagtt 3.....
gaacaatgat ttcaattcag atctgtctga ttttgaacc tattactatt aaatcactac 3.....
cccagaattc aaaaacaaca gagtaataac ctgcgagtca tgctgatgaa atgagcggaa 3.1...
tcaaaaaagg gaacaaaatt gagtgcctgg gttcagaagt tgttagcttg gcatgaagga 3.04..
tggaaaatat ttccagattc catgtcctga gttagcataa tgctttggtt atgcagcaga 3....1
cctggtcag tgtaccaatg ttttagtgtc atgtgaact ttaagtaaaa agagtttatg 3....0
cagagtaaca catgcccataa acataataa gtatcaggta ccagataaaa atagtaagag 3.0.10
gtagagttga agtaaggcag ctgcagattc caatggcctc ttagtttctg ctgtagctga 3....0
aaaggtataa tttatttaac ttccatgtacc gtcctgtgtg aattctggag cccttttgaca 3.7...
gaactatagc ttcacatct ggctcagtgg gtaaggagaa atagatcttc ccggcaaaa ....0
agaagcagct cagtcttgct gcctcctctt gagtctggac aaaaccatcc tcggtggtga 3....0
gcttccagta gcttttgggg agtggctcag gtgaccaatt ttcttccttg aagaattttg 3...0
aatagcttca gatgtagctc tggtggttga agctaaggac aataatgaaa ataatatgat 33000
agttgaaatt cattgaacto taatcatagg cttgttttaa ggtatatttt aggctctatg 33000
caatgtttgtt tgtcttggtg ctctcattac accaaagata ttatagcaca ccacacatctc 331..
acattgaat tgatttatgt gtttgttgag tagcattgct gtacactctt tgttgcaatg 33100
acatgtttt tagatatttta aatatttatt aatttgattt tacaagtttgc ttttaatatt 3...1
tcagagtaaa tatatttatt tttctgttca gacatactt ttaggccaac cctttcaaag 3.0...
actgtagacc cccaacaactt agttttttca ttcccacctag agaaaatat cctgtaatta 3....0
ttgtgttctg agctgagtgc ttcacacat tggctgtgta taagtgtaag actctggaat 3.64..
tattaattgct tagttttgaa ttctgaatc actatttct agctgtgtaa ttttttggcaa 3.64..
gttgccatatc ctatttctgc ctagtttttc tcatttgcaa gatgtattatt gtaaggactg 33540
aattagagaa cacataaaca gtttaaaata ctactgtaa cctgtatcat ggcatgtaaa 3360..
gttgttatta ttgatatttta aaatatctca gtgaagtagc cactatagtt attcccattt 3...0
tgaaaattgaa gtgaatttga tgaatgtgg agaggacat tgaactcagg tggtctgacc 33720
gtagagtca tattcattat gattaagagt ttgtatcagt caagttaggc caggttatac ..7..0
cacattaaca aatgacccc aaattccat gggctaatat aacatgattt tattttcttg 338.0
ccatgttga agtcacaac aaaatgttg gggatgatg agaggcattg tccctcatgc 33...0
ttcttagttg aacaagttg aaaatatggc catcctaaca tgatcacagt gtcaaaggaa 33...0
tttatgtaat atccacacc ctggcttaaa agcttattc ccaaggttc agaatcatt 34...0
tcacacaaca gttcattgat tcaagtaagt tgatggccag gcttaacttt aaaggaggta 34.1.
gaaaattgaa atcttaccct gttactgaaa aattggaat agccaatct tatctcagtg .4.0.0
gaaggttttg aggatcaaat taattaatct atgaaattat caaaaataag gcctagaaca 34..0
tagaaaaatc ttcttttaatc tttggtatga attcttattt attaatgaat ttcctcttgt 34...0
agcagctct ctgtataaat atttttaacc tgattctttt gttcctgata tctctctctc 34...0
tctctctctc tttctctttc tcaatgatcc atttttacaga cctgattaat tttattatta 34.00
gacctctctc ttatcatgtc attctctcttg ttctctccttg tctgattggg taagttcaaa 34410
gtcctaagca agatatctga gttgaatccg taattcattt ctaacctact ctggaatttt 34.0.0
tttccacact tttctctaag gctgtgattct aactagaagg attcattac tgttccaaa 345.0
ttagatgtgc aaattcctac cccatccttt gatattcttc attcttattg tataatctcc 346...
cctctaaat gcctcttgtc tttctcaat tttatatccc tcattattgca gtttaccact 346...
ttcctctaaga atcctcattt ttaccacag cctgaaatga ttccattcag gctctgaactt 3474.0
cccaataact actcattttg ctgaacttta ctactcattt gacctgaac tcagactgt .48.0
ttgaacactt ttttttttat ttaggttat gttgttactg ttttgctttaa aacacagag .4..0
actggctacg atccatatttg attcaattt caggtcgtgt atttgactgtc cttgacacc 34..0
tgttccactgtc accatgttta tcgaaccct tggctctttc ctgtgacatc aaaatgatta 3....0
tacctattto ctagagattc tttggatata gaatgaaaa caagtatatt tgtactatat 35.01.0
atagggtatg acgtgctcca tcatgtctt gtctatta tcaggaaag tacctggaa 3.1..0
ataatagtca actcaatgac tattgtctga ctgaatgaat tattagtaat cacacgcac 3..0.0
tcttcctgaca tgtagttt ctccaaagtc tgtagttcc ttgaacataa gttgaaaag 3....0
taaagtcttt tcggggttt atggaacto ctcaagctta attatgaagg agaagcaagg 3..0.0
aagttaatg aaatcctaat aattcgatc tggatgtact gaatcataat tcctggcaca 3.....0
gggctagctcg aagtgtcta ccctcccia tattccca cccacacctt ttggacactc aggcagccac ...0
atcacaaatg aaaagacatag aaataacgact cccattaac gacaacaatg gtgaaatccc tgtctcccact ..4..0
aaaaatacaa aaattagtgtg gtgctggttt ggctcaactg tagtcccaag tactcaggag 35.20
```

74

```
gctgaaggcag gagaattgct tgaaccttgg agncggaagt tgcagtgagc caaggtcacg 35550
ccactgcact ccagcctgga aacagagtga ga tcagttt aaaaaaacaa aaagaattct 35640
tggcacagag tctaaacatc tgtatgataa cacacttccc aaatgataga gtctgaagan 35700
tatacttttga gaaatcttat tttggaagag ctnctcttga ctggatacaa atctttttct 35760
ggtacggctt tgtaagacaa ctcatctata agtatctctt aactttctat cctcctggac 35820
tagcttcct gcatacctaa ctcatttaat tcnagctgag atcacttcta aaaaatcaat 35880
gcattagaat tgaattaatt tgtgttcact taattcatat agtgtatgct tttctaaatt 35940
gcactaggtt tgaaaatgaa gctgatcaca ct ttt cacn gtaggcttct ctaataacat 36000
ttgattctgt ctttgtacca a ttgtcttct gt ata ttatt agctcaggga tttgtacgtt 36060
gtttgccaac aaactttgtt gatgcattga aa tatcagt ttctaattg caactccagt 36120
gaacctgtaa tatagtaaga tcttcaggt ct ntgtagga aatattgcta ctgaaagtca 36180
aagatcactc attaagtcca tctcatagtt gattgtagtc cagtggaaat atttgctata 36240
tttggcagaa ctgtctttgt ataaatagtg aacagataca ttccatctta gcactgccag 36300
cttaggatct cttaaggatn cgactatttta cttaactgag gtacagccca tgggacacac 36360
atcacctatt gaattccagg tcttagcagt ttattagaag tgtaaacaat gcttccattc 36420
aaaaaagtca actcatccaa ttgtaagac gatttatctt ttttccttca tttcagccta 36480
gtgcaatgat tctcagctgg gagtgatttt gcacccttc cttcctgggg gacatgtggc 36540
aatgtctgga gacacctttt agtgtcacaa ct tagtactg gagaactact attgacattt 36600
aggtaaaagc aatagatgtg ctaaccatcc tgtaatgtac ataacaaacc cctacaacaa 36660
ataattatct gggctaaaat gtcaataatg ctnagcttaa caaacctcat tctattttt 36720
gtactcatta actatcccc tcaaacatc tcatctatc cataaatata tatacctact 36780
atgtaccaca aaattaaaaa taaaaaagag tataaaatta aaaaaaaaaa ccacctagtc 36840
taagttctttt tttggccaag tgctggcac tcatttcctc tactatttca ttgtgtgtaa 36900
cctggatgag ctactcagag tgtttccttgt tcagaatcaa cttcagctgg cttactctta 36960
gtgggaaggc aaacttgggg agataaggtt catctcaatt tctcctttct ttaagcacta 37020
gtggttagcc ctgtagctgg aatacaaacc acaacctcc ctcctgattc actataagaa 37080
cctggcttgg acttctccaag atagtttcc ctcctcaatt cctggcttg gttggaacac 37140
actccatcca gtaagtcgga gagtctctgt ggttatacaa ctggaacttt gattgccgca 37200
acttngttat ctgtgatcat agttatataat aatcaggatg aaagtcaagt ttcctattag 37260
taatttagcc acagtcactc aacactgtaa aagaaaacta ctctgtgtga aattaaacag 37320
agtcattttc ttgtggtgaa aagtctcctgg gttcacctca gtggttctag atttcagcct 37380
tggtcactaa actagcttat gggctctctgt ttctttatct gtatgatggg aataataatt 37440
tctgcctga ttacattaat gatcgacagg atctatacaga ttggctcctaa gttctgtaaa 37500
atgtaccaca gttgctaccc aaaagtgaaa ctgatgattg ggaaaacttc tacacaatcc 37560
caatctatga attaacactt aggaatcact gcattaattat ttgaagaagt atatttataa 37620
ctgcagccata tcagcaaat gaggccaata tagtaagca aaatgtatat tttaaaggac 37680
tcatattcta agcttatact ctttttttat taaaatacct tttctattat gcaatgttat 37740
ggtgatatat tgcagaatgt ttgttgtgt ttaaaacaa cttacatgaa aatatcaaac 37800
attaacaacc tgtatcagtc ccagaaatgt ctttaaaatat ttttctgatc tttgaaactg 37860
aatccaaagg aactctgcaa agtctcctca gcagaaatgt tatcatggat gatacaatgt 37920
gaataaagtt gtatgaatgt aaatggttg catttgatat gttaaaaata ctgttcacat 37980
gctttattaa ttatgcaca atcatctgca gaagtcaaat cctatttgcc cgggatcaca 38040
ctgaaacaca aagagggtga atatgtgca aggacataaa agcaaaaaga tcagcagctt 38100
tagatcagg caaagctgat gtcctgtgtg agcttcagca ttatcagct tcatgctct 38160
atgctaaatt ttaagagtct cagttttttc atct caaaa atgaaatatag taatattatc 38220
ccaaggggtt gttctgtga ctaagtgagc caatataggg aaagggctag atagtagac 38280
tagtacttgg tgggtgctca gggttgtttg ntcatttcat ttaaattatt tccagtattc 38340
cctagtgtgt aaatagtgaa tctgtgacat ttaatgtcct caaaatttaa tcccagtgcca 38400
tatgccttcg tgatgctgat cataatcttg agaaacaat ctgaactcc gaaatcttga 38460
atactgaaat cgaaaaatt caaaatccct aaagtctaaa attcccaata gctaaattcc 38520
tgaaaaacac aattttaaa gattaaaatt gcaaatcttg aaatcttgca aatccaaatcc 38580
tggtgaaggg attagtgtat ttttgtgtgt acatagtata gttgcatcgt gttagttaca 38640
tcatattagg cagaactctt atcctgttat tgtcttcatt tggaaattaa ttatgcttta 38700
aggagatgca tattggagct gacaaggggc agatatatgg gcttaatttt aggtgtacac 38760
tcgactggat taaggaatat ctaaacctg gtaaaaatt actttggtg tgtctattgag 38820
tgtgtttcca gagggagtgtg tgacctaagt ggattatgcg gggaagatct gccctagtg 38880
gtgtcaggca ccccttcaatc agcacagggc acagaagaa caaatacaga agtcaaattg 38940
```

75

```
gtctctctgg cagctggctg gcttttcttc tactgcactg gacatcagaa atattcaaaa 3xxxx
aagtgtagtt tcaaatgttt cactttctcc ataagcatca tgtgtgtaca tgaaaagtg 3xxxx
gaaatttcct taaaaaatgt agagatgtct tttttatat cttcgttggt gaaaagtaac 34120
attttttgag atctcagttc tgtcagcaat tgcaagtgtg gtgatgaccc attccattc 34180
ttgatcaatt tcgtcaacaa atttaggttg tccacatgt attccagatg attccaaaa 34xxx
taaatcttag tgctcacaat tacccaccat aattatatac attcgtaaaat tttactctt 34xxx
ggctcattac tttatgagta cagttactt gcacatcttc gttgtaacca tgaaagtacc 34xxx
attagtacac ctgagtgttt atcttctgcga acatgtgtat gttattattg aatatttt 34xxx
tatacagagt ggactatgta tgttttttgc attttcattt ctctcaaaca atatagacat 3xx40
tcttttatgt ttctcaaatc aaagtaaacat tgcccttta aaatgtaat aaatgtttt 3xxxx
ttaatttttct tttcttattat ttttccagaa tctgtttttg ggttttgat cttttcttat 3xxxx
ttcaacattt ggcattatgg tcttttgggat tgttgtcttt aggattatag ccaaaccat 34xxx
ttcttctctg ccttctgaaca tctgcaaacc cactattcta gtcctcattt ttaagggtac 33720
acgctcagag gactaaactg agttttctca gttttttatat gcatcagact cacctggaaa 34780
acttgttaaa acacagcttg caggccaac ccagaattt ctgattcggg aggtctgtg 34840
tcaggacaag aatttacatt tctatccaagt tccaggtaat gctgatgctg ctggtccagg 34900
gacacacttt tgagaatcac tgagctaaat gtttctttct cttttcagca acatttccat 34960
cctgtggttc ctgactgttg ttgttcattt tccaacatt ttccaaaact ggtctcatc 40020
cagtgtctcc tctcatagta gacatcacat tcatccagaa aataagcaat tctctatat 40080
gcttcttct ctttctcctcc aggtttcttc tttctttcag cattgtctca ctggatcctg 40140
tcccagtctg tcaatcagct gacatcaatg cccccactg ctttgaatca tgcctcttct 40xxx
cttaatgtct atgtgtttctt ggatagatg gttctcagag tagatatata aagaataat 40xxx
gagtctcctc atatttccga cctcaagaac ttgattagtg gtatcctgac tggaacaatg 40320
aaatatggcc ttttgtctgc aaacagaaac aattataaa ggttttttca ctaggtcat 40380
gtttgccttat ttatgttaa taagagctgt tgtattgatt tagctgtctt tatttctagtc 40440
actctgcct cacaataaga ggctatctgt gcttgcgttc caggggtga gttactgtct 40500
tatattgtct gacagggctg tctcttgagg aatatcttc cccaatgcca gtttcttgtag 40560
agcggccagg agtgtcagaac ttaagctaac aaatgatcat cttttctcagc agaattacca 40620
cacgcacctca gactcctggg tttccctta aggcatctcag gttcagatct tttgcccaga 40680
acaactgta acctctgcct tcaggcttta gatctagccac ctgtcaattc ctatcgggacc 40740
tcaaccagt ctcaaataat tggtcaaaag gttaght ata acttaaaaca gtaccagccc 40900
ctccacaata tcagttggttc tcatcacatc aaagtacaca ttatgaccat cataaaattct 40xxx
tcttagaatt ggttttgatg aacagataag tagaaataac aacaccctaa aagttcagttg 40xxx
caattccaagt ccagatgaga agatacgttc aggattcag acttggaatc ccaagagge 41xxx
acttactaat ggttataaac tttgatggtt attccttatct gatgcctggc cttgggtaa 41040
atggatatcc tcaggcttg gtcagaacag ttgcaaatc cccaacttc tgctttctt 41100
ggaggtgatg tttgtatgaa aagggcagtt ttctgtaatt cacacaataa aatgagccct 41160
ctcatttcag gccctctgct gggtaatctt gggcaatatg cttccctct ctgagcctta 412xx
ttacccttt cccttcattt cgaaagcagat cctaacctcc gatctgcttc tgtggtggcc 41280
tcactggat attctgaac traagtgctg ctgctgctaa taataataat accaattact 41340
atagcaacac cacccaactct aacctgagc actttgtttg tgcccagctc ttcggatggt 41400
gtcatgtgtt ccatccagcc gttcttacag aagttctgct agtgtagttac tattattata 41460
ccatccatt aggttaaaaaa actcagccac tgaaaggtta aatagcttgt ctcaggtcac 41520
atagctaata gtggtagaat ctgactggaa acccattaca gtcctgcatt taactgctat 41580
ggtacatgc tctgtagatg ttaaaattac tttggttata ctttaataa atatccattg 41640
aagatgattc cttttgcaatg cacacgttttg ctctctaagc ttttaaaggga tcacccaagga 41700
gtctaaactcc tctggtctg attgctcca tttttgtttt rtgcctgca tgtttccatc 41760
tttctctgt ttccctctc tgcattatg aaaattaaaa acaattgtga gcccgcaga 41820
ttccaaatgg gattgtgagt gtttgctatct ctcttaccac tttattcatta cccagtaca 41880
gataagttcc gctgtctgt taaaatctat ttgacttcca ggtctcacat gcaataaaaa 41940
acaatttgtt caaaagttgg gattggttgt ttgcattcag acaggtatgc ttcacctcc 4xxxx
tatgtcttg aaggctgccc tctctgttaa ggagcttct ttctgtgcag caaaacacca 42060
ctgcacaggt gatatacact gagggatatg tctggacttg aagtaactt gatctcaacca 42xxx
gccatacttt ttcagaaata tttcaaataa agttactcaa cactatgat gttccagtta 42xxx
ctgtgcagg atctggctat ccagtgacag taagatacac gcaagctctg ctttttaaat 4xxxx
aagcacatct acagataact aatagcaata acttcacata atataaaagg tcaattggaa 4xxxx
aataagactg gttgatgtga cagagagttg ttggtctgaa caggacaga gagggatggt 42xxx
```

tgaagangag atacatgagc taagatgaga atggtaagtg agagttcgct gtgcntaat 42420
agtggntaaa antattctag gcagaggcag cttcaagnac aaaagtttt aggttngtga 42480
aagttngat gnttcaagta atagaaagga agccoacng gggttgttgga ggtgngage 42540
cntagangta gagtgctgag agaggtggtt gtagggtcng tcaggocaca atgancang 42600
gocttntaga cnatnggct tcctgggat cttntctnc agnctcac gggnenagca 42660
aaccaangca gnaangcct tctgtgtatt catnatan t ctnaagncca acncnaaca 42720
tctccaaggc cnagtcngtg tcttntntt tctnaatnc ctnacnaaa tcttnacag 42780
ttnttacaca atagcagatt ctnaggatan cctnatgntn tcnagtata agttaaggaa 42840
gatatngag ancanagata tatttattt atanncanng aanagnttat atttngcaa 42900
agttncnant tcctnagtag gtactaagct ccntntatt agnggtacnt aancanaaga 42960
tngaanatca gtngtggga atgtattgaa tagangtng ancatgtg ttttnnaata 43020
gagatagcag tngtggtcac aatgataaaa atagtaanat tcntatgtat taaanagtca 43080
atanangcca gacnctagat gtatattatc tcatttaanc ttnctaaaac aacntnataa 43140
gnaaatacca ttattattc cacttccagt cncagagan gaancctcnc acatttaagg 43200
antngncacn tgggtcagg tagtngntaa gtngnaggng ccacttgaaa accnatactt 43260
cnagtcnata cttnaaaacn ctctcnaggg aaacttaatg attngagtcn atantntgac 43320
ttcatgtatc ttggctttt atttctatc angctttat tgnaggntgt agnggtntc 43380
anntntttaa agnctttaca gncttttac ntatnntaag taataantata gaattcaatt 43440
ctanantago tngaagtatg ttttttcct cngcanan tc attccncaaa gatnanncc 43500
aanctnatga ctatnttgtt cctntngca ttacnnant gancttctc cngtcatgta 43560
gtactnatt attngagtnca tttnagctct tnaggnant caagnntagg tcntnttngc 43620
ttananttt taagnatct catagancnc tnantntct cngacctcan antcactnct 43680
tntttgtgatt naatatcngt cttncnaaca gngnctcac ctntannncn agtanctagc 43740
aaatngnaag tngnagacac ccaatanaca ggctgaatga atgaatgcta agttctgtct 43800
atncatntnca tancatggct gotcncantt agtngnaang tgtgtctntc agttncaca 43860
aancccanag cagtgntctg gactnctcaa catngangat gtcatgtatg tgtcatttat 43920
tattancntt ngctttgtga cancanncag gctcantgga tcacattgtc acnctagcnc 43960
cntgnnatat ctggatttgg gaanctttaac ctnaggatct tngtaaaacn tcctggtgtt 44040
tcngntttgg caagtaggg gtagagtnaa tnctgngt caaancatnan cctacatcc 44100
tnactnattg tgtgantcg angangnccc tttacttcat ntagctaata aanaataaat 44160
aaataanaa aancagtcac tntgacatng tgtatgncaa gnactngntc aagnaatttt 44220
taagntntt nancccagga cntagaagat tctagtnang gntnagtaaa tgttnattat 44280
ngtttntgt antntcaca aattttaaa atattatcac antgantttt tgtnaatcta 44340
gnctthgnag cтngggtgtg cancnaatna tacnaancnc ntattnaan acnntctctt 44410
gaaangnttc acagnaatgtt gtctgantg acnttaanga tacctngnag ctcnaaagtt 44460
ntgtgancтt cancaggagt ctcaanggna atncacnaa gggtcangca agtantcgtna 44520
atngangntg gancaggnag ccnatngatt cttccnaagg catttcantt cagncttgt 44580
aangcactga gttncacaaa agnaangtca ctgttngnca gcntcggttc ttnggctago 44640
tcntcnaacn cangtgtatc atctangatg ganggngttn ctgangnant gangnaggac 44700
aantcntgga aagagaggta caangaagag atgngatttg gataangaac gganngagca 44760
ggnaggnttg gatnaactga cctntagata cattcattt tatnccaaaa gtccatttnc 44820
nagtctttaa accnctcac ctcttnttcaa gaaantttg tctnagcttn agangnagcat 44880
ggncctcattt aaantgttgt gaaagaagtt aatgnaagca tcnagttcct angctngntga 44940
attttnattt ttatttctnc attnanacag tttaacnttt gcttttggna gctanncanat 45000
tgntnaaata aangnaagag aangntgtgg gggangnagc aangngtacnt tgntanaaag 45060
gttatnagnc tncanaatagc tgtnatatga gtngtntnca ttntntang cacancncat 45120
gcatnatcn attnaatgct cangangnc ctcntnagtc taattctat ttngnagng 45180
gaanttatnc tnagtttag cangaataa ntnancnta gtcancatgt tgnanngagt 45240
gcangntaa gnatggnatt gnaatctgtc aanctncagt ntgtagnac tgncnagta 45300
gancncgac ttnaggcca atngcattng gcactngatt tgt gncaang ngtncccnca 45360
aggtttgng gctatgctgg tgntngctat gntggctggg aaatncanc taancntagaa 45420
atangtngnt ttntgttaca aangcagttg gaagangnga aancantcnt tttntgtttt 45480
tctgtngct gctctcctta ctttncctg aaacttangt tcanagagt gcaattagca 45540
agtnagctng tcttgctgaa cantcaggtt acttnantc agtanttgnt gcnagtgnaa 45600
tgtngagcng angggctggc tgntanaatg cntctntngg aganngaanct gtgnaatagn 45660
ctggtgtat tngcagatac tangngncaaa aagtccntag aaactnaagc tnnaaaaat 45720
gtctanggaa agnaaaacgg ccaactaagg tagtnaaacac ttnagaaaac ctngataata 45780

gcaatttgga aaatcttgaa tgtacaqttt catttcataa acactccag tcatggatg 45840
gataaaqatg tttttgcctta aaatgtaact ggtaaattta cagatataa tgtattgata 45900
grtgtraca gaaagacaat atcacgttgt ggagtaagta cttgatttqata acatacatgtt 45960
cttgatatga gtctcaggt catcatacc agctgtgtga ccctgaaqaa gttaagcatt 46020
tttttgjcaa tgtatataat tggattttaa ctctccaacc ctaatcaacc agcattctt 46080
aatcaajaag taaqataaat gnctggccc tgtcggattc attttactct cttaagaaa 46140
aaatgatat ttgaaaaat gtattctaca cggtaacttt ctagaagatc acatcatt 46200
ttttcattg ttttttttg tttgtttg ttttatttt gaggttgatt cttttttcc 46260
ctagtctgga gtcqtactgga aaaatcttgt ttcattata ctttttacttc ctaqattaa 46320
ggcattcca tccaagacc tctgagtat ctcgatac agqcatqat cacatgtct 46380
ggccaagtc ctatattta gtagagacag ggtttccca tgttqccacg gcttuttg 46440
aatccctgac ctcaagcgat ctgccctgc ccgcctccca aaatgtttg attgagaca 46500
tgaatccacg caccaggcc aacacaggcc atttttaatg ggttgttagg ataatattgg 46560
taaaataqatg tgaacgtgcc atgtaaatttt agaatgtaa acaaqgacag actaatatta 46620
tttacccacc atccaacacc atgtttatc cagttqttta ttcaatttca aatgacttct 46680
taccctttg gaqaaatgat ctgaggtggt ccaaqgtatg gcccatatct qttaaataa 46740
ggaacctcct gqcaacatatg ataggccaaa acccatac ttgggatttg tgaacaacat 46800
tttcaagtca gttaaacaag cagqtqqtaca aaaagagtt aaataatcta acttqttta 46860
qtacatattg ttaggtqagt aactgtgaatg tgaaacagttt ttatctttta ttttttaatc 46920
tctaagtqgc attattaggc atccattcct aaaataaaat aatgtctatg aatqacat 46980
ggtcattaqa tgttcacatatc caaatctaag attagtacaa ttttcacctc cacttgtct 47040
tactcttqqc actcctaac taagtqqcag tqacaaatc cacctaattca cctagaaaga 47100
qaccaaaqaa cttttgattc tgttttcctt atccaatgtct ttgatctgqc acaagttct 47160
qgqgctqttta cctctactgt ctcccttaa tctqtcaqgc tqtctaatgtt ggcaqaaaat 47220
aqqgaaaagca getcctaact gqcttctgcc acaactqctt accaatgtc aaatcatc 47280
caattcttqc tqtqaqaatc gtcctttaa aaqaaatcat ctactqtqgc actccttqtt 47340
caccacttqq qqaaatccag cctccqtaqt gtgatattqa aaqctcaqca qactctqacc 47400
ctqtccatc tcaattqtcc ttccacacc ctcccctaaa ttatqccaca aattcttqtc 47460
tqtqttctaa acaatagcca qatttctctc attcccttcc tqtttctqtc ctctqacaa 47520
aatcaatttg ccaqcaatgc tctctaqttt ttttcttttct tcatcactat ctccttaa 47580
qactttaaat cttcctcaq qqccaaqttt aqatctaacc cctaccaata acttttctc 47640
aatttctcac qcctactcc acaaqaatta qcttcctc attatatctc ttatcattt 47700
gcqtacatt acaaaqatttt qtatqcatqa ctqttaqact qacaqctctc ttttqqqqaa 47760
aqqtqtcatt catqctcatc tqtctatctc ctttctctctt tcttcacttt qctcatcac 47820
tactaactc ctcaqccca acatctaaqt ccaqtacatt tcacataaqa qacaaccaq 47880
caaaaqtqtt tqaataqaat ccattaattt qcattccatt tcttqqaaa tcactttqq 47940
qatccatcq ctaqataqtq aaaatttcaa ctaacatqat qqtqqaqaaa accttaact 48000
tttctqctta tqttaaatt aqaacatt tqtttcatc tatcaactct qctaactct 48060
taactaatt taqttatqq aqaaaqqca qaaqacttat tttttactt tttaatatt 48120
ttcqqtcaat tctctcttct ccatcaqtat tqcaqtqcc ttcqttqaqa caqtcatct 48180
ttqtaqtraa aqttttaaqt ccctqaqata aqactatctq qqtttctaata ttaqttatqc 48240
taacaqacaq accttqqatq aqttaqttac tcttttqtqq cctcaqttcc ctaaccata 48300
aaaatqaaaat attaatqcta cccattttqt aqaqaqat tccacaqqcc taqttqqtqq 48360
ccaqqqaacc ctqqataat aaaaqctaatc cqacatcttq qqaacaqtt aatctcctaa 48420
ccttctaaq atactcqtq ttcctctttca aqtcataca ctqtqtcqca qtaqattata 48480
aactqaatca qqaaaqaqat qatqtctqt ctccttccata tcctqqctc ttqacaaata 48540
ataqqatcat tactqactt ttaaaaqcaa atqcaattc tqqaatttq taqtaqtctq 48600
aqaaccaqac cctqqacatc aaqqccaqt qqaaaataa tqatttctcc qcqaqaqacc 48660
tqctctaqtta aqqqccqqt tqqtqaqaqc attcttcatt ctctqcatqt 48720
cctqtqqtc tqqtctqtct qqctqqtccc cttctqtqc tqctqcctaa qqattqtctq 48780
ttatqtqtct attqtqaaaq qtqttacaca qaaataaatt qcattqtttt ttaqqttcat 48840
aqaaattac ctctqtactc atqtctqtaa qqqatttcat aaataqtqtqa qqqccttqqt 48900
tttaqaacca qqtctctcaq tqqctttaaq ataqataaqt tctqtaaaca aatqcacatt 48960
caaqcaqtqa aqttqcaaqt taqaqqtqaa qatqqaqqtq ctqctqcatat aaqqaacaaa 49020
tattctcaqc qctttttatct tcaaqttqat aaaaatctat caaaacatqa qatqtqqtt 49080
tttqtttqtt tttaataacc actqqaaaac taaqacttqt ttaatataqt ctcaqccaac 49140

```
agcttgtgct cttaccagcc ctgtgattag acgaaaggga aagttcaaag tgtcacctag 49 00
aaggggggag caccaaagaa gatgagtcat ggaggtgata cagtgaaagg caaggagcag 49 00
ctgggttgga atgtgagaaa cctgagtctg atttgttcta atcatcatcc tatatgatgg 49 00
tggatgataa gaaccacaga ttttgtgagg aaattgatgg catagactca acaacagtgg 19440
gatgaatttt tatatataat aaaatgtggg caagcrggtt ctcccaaaat atttagaaat 49 00
gatgtgatgg agggggatt gtttccctt gatcacatta ttcagaagtg actccattct 19 00
tatggrattt ttaaacatct attgagatat aatttatatg ccatagagtt tacttatttta 1 00
aagtgtatat ctcatgtcat tttcaggtgs tatatatgtta agtcatgac aaaaagattt 4 00
aaaggagsta atgtgaaaca aatatcacaa gatgagtaga gaggtgtca aagttggagg 1 10
gttgttttt taatgttt ct gctt cccag caactggtag atctgccctc atcccacctc 1 00
ccagccca aggtctgct atttttgag gttcactaca ttaagtaaga atagttggt 4 00
cttagtcagc tgacaggaca ct ccacagg taaatgctag gaatcctct ggaggtata 4 00
ctgcaatctt ggaggtttag aattgttcc gcttgaactt tcagattatg agttccattg 4 00
cacagccacc cacccaccct tttgtgtga cacttgcgtt agcacaaat gtccctattt 50040
ctccctctaa ttaggtcttt accaattaat ttacaggcca tgttccagttt ccataagcaa 50100
tcaggtacat cctacaggtg cgttcatatg gtatcatttg tcctccattcc tctggatgt 50160
tatgatctc aaaactacct ttcctgtaac ctataactaaa atatctaat cctagcatgt 50200
gtaattccaa tgaagtcctt ctcctggaaa actactcttg gttctgttct tgaattattt 50260
tctgtcaata tcttcctgg aatgacactg gctggtttg ttaactaatc aaacctcatg 50340
aaggggtaaa tagctggca gtttgagag aatgattaaa ttaggtcact gttccttaaa 50400
cacaacctt ctcctatctt catgtatta tcatatctgt gcatttactt atattttct 50460
ttaacaaaca tattttaatt aaaattattt aaaaaggaaa catatcaact attgcaaata 50520
gaaaaaccag tatcaccatt aatagataga acctataaaa ttaaaacaaa gcattgttat 50580
tatattctag ccatatgtca tttgcattcat agcgttctga gcctgattct tgcctctttt 50640
tgtttaaaat aaaaggggaaa tggcaaggta tggagataaa taatttaccaa aacagatttt 50700
gttttcact taatagcagg agtacaaagga aatttaaaat gaatgtgcat actcattttg 50760
agctgttgt ttaatgccat tttacaatg ggaaattcca ctcacccatac ctgggttcta 50820
gtcttttactg agcaattaaa ttgctatatg gctagctcac cttcttgtac ctcaattgt 50880
acatatgtag aatgagggttg gttagttgaa atacagaatt cctttaaacc caagtttctc 50940
aatgttctc acggtggagc ttaactgaa tttttctgtgt agttatactt cttgaaaat 51000
gttaattct aagtctcatc caagatattc tgaaaaagaa ttttctggaaa tttttcctgt 51060
ttttatttt tgtccagttg acaatgtgat attataagat tcaaacaatc acttaaagc 51110
ctgtatgata aactgaagag taaaactgaa ctgtgaatag aaatcaaaag ctcctcgttt 51170
aagaggaag ttacagtgta aatttcgt cagctaacaa ctctcatttc tccattt gag 51240
agtcaggtc acattcggaa cactccaggt ccctctccaat tctacaaata cacttattggg 51300
ttgctttgtt caaagtttctc tctgaaaatc tgtgctgagg ccaggtggt gggaaggttg 51360
aaggtagaca tggccaaatg aaactgttgg tctgtggggt gcaattgtcc ctcttgaaag 51420
ccagccagtg cacgtggaga ctagccagag ctgcctctac ctgccttgcc ttaacagcat 51480
atatcctcca gcatgttcag ccagatctgg caagcatctg cagaaaggct tagccgaatc 51540
tcttgcaaag tcagcttagg ccctgctgga gagacaagaa ggaagacttc catgaatgct 51600
aagtggtag aaatgcaaact acacgaggt ctggcttgga ttaactcttc atatcctgga 51660
tgcctggat tggagatttga gtctatcaca tgtgtgtctt ttcaaactg cctcctaatg 51720
aaacacatat atccatcatc cagagactaa aaactaagtc tcaacctgaa cttccatgcc 51780
cccagagca ctcctagcct gtcctctctg cctcaactcc catggttgc caactgttc 51840
attgatcaac tgattaattc atacaacaat catttttgag acaatcactc tgtgccagac 51900
cctatgttag ttacttggaa ttatacttgtg accaagatga acaagttctc ttttctcatg 51960
aaatttaagg cacaacataa cttaacaaac cggacaatcg cagatcgggg aaatgatttc 52000
atgggggaag aatcagtcttaa acagatacaa actacacaag gagaggcctg tcaaaaatagg 52040
ggacatatga gacctcaaaa cctagaaaaaa cccagtccta caaatattgt ggtaatcttc 52100
cagccaaagg caagaatcta caaaggcctc tgaggcaaca aaaggcttga gtagcttgg 52160
gaattgaatg aaagtttgtg ttgtctgtagg taagtaagat aaagtaaaaa tgatatgaga 52220
tgatgtaagga gagcatgca gtacacagaa cctgcaggac cggaggttca acaattccca 52280
tttcaggct cttctctttca acctaactgc aataacattt ttcttgagca tactctact 52340
ttgcctctg ctcatatttg catgctgcta atgttcttgt ctggataac ttggcccta 52440
acacacgtat aagaaaaatc ttcctccatt cttcgtacc cagctcaaac attacctcct 52500
tgacagagct tgttctaaat acacattta tgctgagtag acatgaggtt ttcctctttc 52560
tgaccactca actcccctg agcttcattt actctttctc ttttgttctc attccaaaga 52620
```

```
ttaactttca gtctaaaagt tccttgttgg aagaggaaag gatctaatat ttgaaggaca 52980
ctatttgtgc caggtgactt gctagtatct tcatatatcc cattcattc atgactatag 52040
tcttgtaaat taggtgttat tagctcctt ttagaggtaa gaaaccagtg ttaaaattact 52000
tgaactacag cacaaaacta catgatgtag gtattaactc tacaattcct cagtatacct 52200
atcattgccc cttgctcatc attcttatta atttctcgaa gttactatac actctagcaa 52300
cttctaatcc tcatttaaga acatgaaaag gccggacact gttgcttacc cctgttatcc 53000
cagcacttty ggaggtcaaa tcacttattat caaaaggtca agtacttgat accatctgg 53000
ctaacatagt gaaacccat atctataaa aatacaaaaa ttactgtgat atgctggccc 53100
atacctgtag tctcagctgc ttatctctct gagtcaggag aatcctctt acatgggagg 53200
tggaggttgc agtgagctga gatcatgcca ctgcacacca gcctgtgtgac agaacgagat 53200
ctgttttcaa aaaaaaaaaa aaaaaaaaaa caagaaaagt gttgccaggt atgggggcaca 53200
tacctagaac tatggccatt catctgtaa cttgaacttt ggcatcacc ttgatccctg 53240
atacctactt ctcttcatcc caatcagctc tgtccttctg ggccagcatg ttcttcctga 53400
tgataaataa gtattgaacc tgagctatt atagccagg cctcagctac agtgtctatc 53460
ccaaagtgct tgatgttcag agagtagtc taaccaaact tttcgccatcc agaaggatat 53520
ccaaagacaa actcattgtc tataacacca agagatagaa ccctataaag tcaaacttct 53580
atgcctccc tacattctcc acttgtaga gagacaattct gacttccttt tgaaggaata 53640
attactgagc agctgtggaa tcacattga tcacaattct gccttcctt tgaaggaata 53700
acatgcaagc aggagttgcc acatgtat catggactta cttcagtatt ataataaatg 53760
acatcccatg agaatggctt gagagcaagt gatgcactt ggcaaagcat tctttatttg 53820
ccataggatg aaaattatcac ttcactaaga gtaagtgttt acaagtatt ggagatcagg 53880
aactagaaaa aataattcca tgtcccaat tgaaggttta cagcagatat aaagtggagt 53940
gaactagtaa tcacagagtc taactttttac tctgccatt gctagtgatg aagccttggc 54000
taacttcatt tcatttcgta tgattcatct catggtacct cctcctagaa gattttcatta 54060
atccattcct cttctcctag ttttgtacagg tggcctctcct atgtctttcc atagtgcctt 54120
tttttttcat ttatcacatt atattataat agttatataa aactttctt ctctcactaa 54180
attatatgag taaagtatag tgattaagaa caagaatgtt ataatagac agatatgggt 54240
tggaaccagg gtttggctgtt catctacta tctgataaaa atacattct tagagccattg 54300
ttataaggat taagcataca tctagccatt agcatagagt atgggtcata actagtaaat 54360
gttttgcctt ttatttttgc cttatttgcc acagtggcta acgcaatcacc tagcacacat 54420
ggaggtagg ttggtgatgg tgatatagat gtgattgagg tggttgttat cctggtgata 54480
cctgattaga ggtaatgtca gcaatctgg aatggtgaca atgtttgtaat ccagtggta 54540
atattataat ggtggccatt gtggtcctgt tgatgatgat gatgatagta acaaatgagg 54600
atgataataa tcaacagtta acattctctag agagttact ttgtatata caaggcatg 54660
tactaagtac ttgcatatat ctaatttcat cctcttgact tctttttagat atggccagta 54720
ctccacatct ttcaagtggg tgaactagg tttcagagt tgagtaattt cctgagagcc 54780
tacattagt aaactaaaac aaagtcataa tttgatacag gccatatgat gtcatcatat 54840
atatgtaaag tgctcaactg ttggttactt gaatgaggaa ggaaaagaag aagaaagaga 54900
aggagtgagg gaggggggaa tttacttgtt ttctaatctt aaaatccttt ttctgaaaat 54960
agagatattt ctagcattta tggaaatcaa atgagattaa aaaaagtaa agttctttga 55000
aaactgtcaa gtcttctcta tttacgaggg ctaaaccatc agaagcaatt tcataattac 55040
tcattcattc attcaataga tattttgttt tctgttttag gcactagaat atagtggcca 55100
aaacaaacta aagtgtcctgc ctcagtgag ctttcagtcg agtctattga cagacaagca 55160
aatgccaagt gaaatatata gttttgtggg aaaaaataaa gcatgcaggg ggtgaggaa 55220
tatgtgtta tgttgttttt ttttttt ttttaatagg ttcttcttg aaggcctctg 55280
attaagtgat atctgttcag gttctaatttaaaa aggttagtct tggttcacca cagaatctgg 55300
gacaaaagtg tttttatatc taatagttag ttaaaagtc aaatctatta tgatactact 55400
gttataagaa tgctagaat gttattatgc aagaaccca aggcttgttg ccagtgacta 55460
tgcagtcaag tcagtgtttt tcctgtaagg ctctctgt ggtgtctctg aaggctcagt 55520
caagtgttga tgtcccaggg gtgatactat tattgaaaa tatggttcct ctggcaacag 55580
gcaatgggtc tgaggagat atcttctatt cccattcaa acatcaatga gcatgatgac 55640
actaggcagg tcatctgttc tcatgccatc acccttcca gctgttaaag acaaaggaaa 55700
gtcaggtagg tttctccacc atcaaatgga aagtcctgc tcacacaggg tctataatga 55760
aatgttttat ttaagtctca aatgactatc gataaagtta atttactta ttcagatttta 55820
cagacattac caaattacct aggattgcaa acacaggag agtaaatata aattaccaac 55880
cagattgaag agcttatata aataggtaaa tagtcatggg aagagattta atttagataa 55900
accaaaggca ggatatctgg aaaatgccaa ggtcagggaa aagcagagag gaaaagatag 56040
```

80

```
ctagtaagat ggaagagaca tggaaaagat tcagaaaatg acgttggtga tagtgagtgt 56100
ggccagtatt atgataaaja tacaggaaat ggaaaagata ttactgaaaa atatggtttc 56160
tccttagaat ccaaaaatca ataaggtaat tttgtggaaag cagtgccaca ctgtattctg 56220
tggtcttagt tccaactctg ctaggaactg cctctgcaac ctgggaaarc tttttgattt 56280
ttttctaacc tttacttttc tcttctttttt tgacatacaa tacgattcta agtttaaata 56340
tttctagttc tcttttgttt aaggaacgcg ccaagtggtc tgagaagaco ctgaatccat 56400
ccctggtcct cctcactcac cttaatagaa acattgaaaj atggacaatc atacaagta 56460
gtcaaacgga aaggtattca ttttggaacat ggatcaaggg tccaggctca tcacagacac 56520
tgaaaaagtt gaaaatttt aaattttggg gagaacgaca gttatgatag ttcagtataa 56580
ctgggttttg ctacagtcta tacaaaaaag ttcagatcg atttgaatcj gttgaagggg 56640
atgtacaatg cagaaggagg ggcgagtaa ataagacaat ttataggctg gatatcttca 56700
gggactgggg ggaagttcg gtatctttaa gatggcatgg cagtctgaca tacaggaata 56760
gttgtatcca ctgcaaatca taaccttcta tgcatttcag ggtctgtctta aggatattttg 56820
caaagaacat acaggagcgg gaacatcaga cttgtcctag ttgcttggtg cccaggttag 56880
ttcaccacta cagcaatgtg ggagctaact gcatgctaag cttggcaatgc agggattggc 56940
aaaccttttc tgtaaaaacc cagataggtaa atgttttaga ttttgttgagc catacggtct 57000
ctgtcacaat tactcaattt tgctgctgga gagtgaaggc agcaactgat tggtccctct 57060
tataattgaa gctcctgaca tgacattctc ctcaatgata atatttaaat gaaggccata 57120
gctgtattcc aataaaattt tacttacaaa cagatagctg aattggctc acacaacgata 57180
gtcggccaac cctgtttaa ggcatgatgg cctcctat tagcaaatat gtcctcatca 57240
gtgtcctgaa acatgtttaa tttttargtgt aactccccc tattggcaac aaagtgaagg 57300
ccaacaatc ttttccacta gatggtccaa agaatataat tactaaggcg tgtgtcactg 57360
gaaatgccatt ccaatatac aaacatctta ggtattcaac ttgttccattg atgtttgaag 57420
atgaattttgt aggggaacat tagatgtttg tatgattgac ctatgttgaa aggagactta 57480
ctaaggtaga ggcaggttt cattttctcc aagaaggaag agttgaagaa gtccttcaa 57540
tctagaggaa tcatcattgt gcaaacatca gggaagagat ggagcaaagt taaatggctg 57600
gaagtcacag ggaatctgt tatggctagt tgtaacacag attatgcac tggagcttta 57660
cattttataa aattttttgg aagtgctttg tcaccttact tatcagaaga tgctaaagtc 57720
attccatag gttctccatg aatgaaggga ttcaataatt attaccgatg atgataattt 57780
atgcttatta taactaatg gtccatagca cagcagcagc cattcactga ggcactgtgc 57840
ccaaggctcc acaagacaca ttccaacttg ttccaacagt catgccaagc agttatgggg 57900
aacgtcctac agattaagaa attgaaatac aagtttgata attgccaaa gaaacacag 57960
tttattataa ggtgccaaagt caggcctcaa actcagctct gctcccacag ctacactgc 58020
taaccaacac attgtcctat tgcacaatg cagcattctt tcattagttg gtatgtttat 58080
gtgaagaacc agcactgga ccagtgcctt ataaggatcc tttgaaacca agattttatt 58140
gtggttgaag ggcagagagc taaatcacca aaatgtgtaa gtagagacag acagaatgt 58200
aatctccatg aaagcaatgt ccttctctgt ttttcaattt tttacccatg ttatcctag 58260
cacttagttg tgtctgataa atattttaat aaatgcatca gtatgtgaac attattgga 58320
attattttt cttttaata tcaaaaatct cataccacc taggccaagc ttaacccgtg 58380
aggctcaggc cgcatgcagc ctaacaggc tttgaatgag gccaataca aattgtaaa 58440
gttttcttaaa acattttgag actttttatg tgaatttttt tttagctcat cagctattgt 58500
tagtgttagt gtatgtgatg tgtggtccaa gacaatgctt cttctttcaa tacagcccag 58560
agaagccaaa agattggaaca cccctgatct agcctgttc aatgtctagg cttgaggaca 58620
cccctggatct aggctataga aatgtctcct attttctcct cttttaacca catagttcaa 58680
tacgctggac acagtagtca gttaaggaat atttgctag gatgggggcat gatagctac 58740
ccttaataaa taaagtctta cattcttaca gtaatcaaca acttctagc cntcctagct 58800
cctgtgacag atgcaactac tcttattcc ccatgttga gttttaaatc aacattctc 58860
tcccctattt atggatacag attggaaaat acattagaaa gggaagagcc aaaatatcct 58920
ctgatttata atagtagctt tgttgtgaac tttcatgact atattagtaa tagctagtta 58980
cctgtaacac agtttagagc cattaataa ataccttgtg gaattttat gtgcttccat 59040
gtagcagagc tcacacctgt agaacaacct ggagtaatta gctggaagga tgttatcaca 59100
gttagcacca tccaacagt gaatctactg cagagctgaac taatgatccc tgttctgaga 59160
gacactgaat cagagttgac caggtgttcag gtatagaagg gctatactag gtataggta 59220
gatataatta tcactaaagc ccctttaaaa aataaagtc ctagatttt gaaataccc 59280
atgtctccat ttattgtgac attgttttt ggtaaataa ccctttttta tagaaaaaat 59340
ttttgttgaa atataaatata catcacttgc atgaattttt actctcctt gagcagctg 59400
agcctggttg gtaatgttag caggatctca gtctatggca gacatattga ctcttccttt 59460
```

81

```
gcttttaagg tggtgtgatt tcaactaaca gaattcatgt tgtattagac cacataagct 59500
catgtcctgg aaagagagcc acottgccaa ccagttcata aaaattagct cagcactttc 59560
tcgtgagctc cgcatggtcc tggatggcc tgagtgtggt cccagcaata tgtattttt 59640
aaaaatcttc tcaattggga aacacagttc tgaaatagaa cttcatcatt tgggtctgc 59700
aaggggaatg gtgttgtacc actgtattca caagtaaact gagtgcaga ggctaaatgt 59760
ccctgttgtc aggtacag cagtagttag gggcatattt gggacaaaa ttcatattag 59820
ttttctctag atacagaaat atttcactca ggccaatttt tatacaaac taacttcagg 59880
actgatggtc tggccagttg tggtctgtt atatgtgtag gttgtgtgt tattgtttata 59940
aaaagcagta tcctttcaaa ttatatgagg gatacatgtt tatcatggga aatatataaa 60000
tgtgagaaaa agggaatag aatcaaagta tctatcattg cacaactctg agataaccct 60060
cttattatgt tgtgtatatc cctttagac ctgtattca tatgttgggt tttttattat 60120
ttttaaagac tggattatg gtgtatgcac agtttttcat tcttcactgt tattatatta 60180
tgagcatctt tcatgttaat aaataggcat tcaactagc tcttaaatag ctatgtcgaa 60240
ttccttgatg taatatatca taatgtgttc aacagagtct tcattgatg tttaggatgt 60300
ctgtgtattt taaaaacaac aaacttgaat aaatactata caacttctaa agctcagaag 60360
tgagatattt aggtagcaaa cagctctgat caacttaaag agttaacaat caactaacca 60420
gaaaatgagc tcccctcct tttaaccagg ttaaaacctg gttcttttcaa ccaggctgga 60480
taattgagat ggtactcatt aatgatcct gttctcatca ttgttcagtg ccaggcatgg 60540
ccaacacttt gaaatattag taatcaggct cactaagttt cttttcagtt ttgaaaaga 60600
ggtctgcaca atacattatt acttgtgggtat ccttgagact tctctgccac ctccaagagc 60660
agaagcaggg tcttctgagg ttaacagtca ccactgggtt ttaatcagga aaaagaaaga 60720
aagccataaa tttaaactct gaaaaatcta gtaccaccc agaacagca acaaaatcag 60780
attgggagtct ggaacaaagg tctctctagac ttgagaaagt tcaggtgaa attgggttta 60840
ttgtgggtct gagatcagaa agtaaaattc taaagagctc aagcaacaa catccaaaaa 60900
gtggcaaaa atggccaaag aatggagtgt ggtattttct gggaaagaaa acgattccc 60960
ctcccttttc aaaaattttc caggaaacta attgtcaggc aacccacttg tagaatggaa 61020
gcatctctca aagtgatcta caaattccaa gaagattttt ttctactgtt tatgatgccc 61080
aggggagata caagggtggc ttgcaaagtg gactcaggtc tgcattccaa aactgccttc 61140
attccctta tgtgggacta agaaaattat attatcate taggcatttg tcctccatcc 61200
attaaataag aagtagagag gcgttacagt acccatcaag aatccagtt ctatcgctta 61260
ctatcggtat caaattgat catctcttta atttctttta gttctcaatt ccagtctta 61320
aaatagagac aaaaatatct tcctagaag atttcattta atattaaaat acaatgagct 61380
atagaaaag cttaggctag gatctgtgac atggttggtg ttaaataatt acaggattca 61440
gcagtgttt tatttttctt tccttggag ctccaaatta tttatgtca gggttaggg 61500
gtatatagat atgctaagat atgttcattt ccaccaggg agtcgagtcc actgtggggt 61560
aaagacgtgt acacacagtt gtcctagaag atcaagaagt agagagctgt ttcatgaagg 61620
ctctccaggg tggaatggta gaggctaaca gtaaggcag gcattggagt gggcttttaaa 61680
agatgaaaaa aaaaattaag gcagggtagg agcagaagta ctcagataag gaaaaaatgg 61740
cacaactggt tggatgaatt gttactatta ttgcttaat ggcacaactg gtttgatgaa 61800
ttgttactat tattgtacct attctaatag gtacaattgt taaggtaaag gaaaaaacca 61860
tatttgcaac tagaaccaaa traactactg ctagaagatt taaaatcttc cttcaatatc 61920
aaggtagaaa aagcttagca tcttcatttt gctactaaca ttctgaccit ggacaaataa 61980
cttaccctgt tcctcagcta aaatgaggat gtaaatccta acctgtctat cttaataggg 62040
tgttgtaaga attaactgaa ataatgtaca gtctgcttca caatcatctg cacggcttga 62100
gaaagcacag attgcaagat cccacccca gaguttctaa tttcagtagt ctggtgttgg 62160
acccaagaat ttatattctt ttttattatg atgttgattaa ttatacttta agttttaggg 62220
taaatgtgca caatgtgcag gttagttaca tatcatataca atgaatttat attcttaaca 62280
agctctcaag tgatactgat atagctgatc tggggattac agtaaaaaaa ccactgcttt 62340
aggtcaatgc agtttttttt aaaagctatt attcataact ggctaaaag tcatgtaagt 62400
gttgattatg ttttattacg tttctagacc cttaatatc tactcagtat atacaaat 62460
agaagatgta atatttctg tagcattccc tacaacatat ggcttgct cggtcatgca 62520
tagttaatgt atgtgttgat tttatttgtc ttcgtgttgc ttctagtctc actagaaaga 62580
catacattta tttgaatgtt gtagaatgat attattcatt gaataaaat cggatctttt 62640
tacagttttt tttgcttgtt agtttcttaa tgacacgcc tatgattcct aaaggacttt 62700
ttatttatt tcatttaaac ctttgataga aactgcatct tcatgtgac cactctccat 62760
ttttctgctc atatgacac attttccagt agtttttaaa ggctccagtt tgcatggat 62820
ttcgattaat ggaagagaac agatagctct gtaaatagag ccagatggct cttgcaatat 62880
```

82

ct gaaatgaa ctgtttcaac catcagaact gtaaatcacc ttcagaaggc tccttctccc 6. 490
aggagtagtc tttgtattat tcatagcoct tttgctgtag tacattcttg tctcatgaag 62500
attacagcca atcactatgc tttcatagcc catcctcttc cctgaacccc tgcttcatg 62540
ctgtgtcata gcctcggcac tctgttctct gaacttcttt gaggagtagt gttttccagg 62620
actagcttc acttatgcca agagtgcttc cttcctgtga tcatgataca ttgtaaagta 62140
tgtggttcct tttttaaang gaaaattcta tagttacact aatccttca agaaataagg 62641
cagagaaaag ccccctcat cctctccgaa gcagtcatat gctttattca gaatgaatca 62600
tcactttgta attgtttgcc agtgtttgtt gggttgaage tcaactctt tctatgggta 62660
gatctgtaag cctgtttttct ctgaacaca gatccaac tgtgttcta tggattgcat 62710
cagtgattt catgtatatc ataacttttt aagaggaaga gagagaaa ttgacttgc 62740
gatcaacatt acaaaaaaac atcatgagac tttgaatga aattgatt tttagcaaaa 62840
aaaaagaaa aaaaaagaa gaaggttttg cagtactgga ctcccatttt taagggtaac 63600
agccgaatc tggccacgtc ctgtaagaac ccactctctc cagtttgttg ctgtctatac 63660
cagcttgttt gactccttta cattacctgc ttgactccta aagtattc aattagtggc 63720
ctgttttgc tcttttttggc aagttcacag acttacagag tttgaaagct aaaggagtcc 63780
ctgagaacaa ggattttcta atgttacttc acatcaaaat caccatacc ctataaccag 63840
gctgcatca gtaccaatta aataagaatc tttggcagg acaagctat caggattttt 63900
tttttaatt ctccagatca ttccagtata cagatccctt catctaacaa ccagtacctt 63960
ggaagaatac tactcagaat ttattgtaca tacaaatcac ctggacattt gttaaaatgc 64020
agattctgtg gagggcaggg ctaaggttta gcattcttta cagccaatg cttctagtcc 64080
cccaatcata tttttgcatag caaagctaa gagatcttct ggtctgtct tttttcataag 64140
ttcaagaga tgtcaaaatg aagcttcct tgttaagtat ctaagcttag gatgaattat 64200
ttattttatt ctccagcttt tctttttcaa acaaccttt tctgtagaaa caggtgcttg 64260
ctatattgcc ctggctggtt tcaaactctt ggcctaagc aatactccca cctagcctc 64320
ccaaagtgcc aggattacag gcatgagtca ctgcaactag ccagagttg ctttttaaaag 64360
cataaatgac agtggtatca aggatattcc tgttgaaagt atttttct cttatttact 64440
tacattccaa cattccttct taactaaaag agaaagaagt ggttcttcag ccaaaagaac 64500
attattttcac cctggtgatg ctcatgggat tcccattta tgatggtaga tgtgttactg 64560
gtggtgaatc catacaggtc tgcagcaacc tcaattcttg cctcctcaaa agaaagaatt 64620
cgaatgagag gcataacaca gagtgaaaga ctgaggcagg tttcagagca ggagtgaatg 64680
tttattaaaa agctttagaa caggaatgaa agaaagtaaa gtacaacttgg aagacggtta 64740
agggggacac ttgcaagcac aagtgcatgg ttcacctct cacttgggt tttatgtact 64800
agtgtgcttc gggggcttta cattacttct ccactgattc ttccattggg atggactatc 64860
catatgcaca ctgccctgtt agtgcttgtg aggaggccca tgcacactgt gcttactgaa 64920
gttctatca tgctcacgtg aggcattctt ccttaccag tattcgtaga accatatacc 64980
agttaaatc caccatttg cctcttagtg tgcatgcttg agctcattca cccagttct 65040
gagatattag gaaaatgcca tcaccagttt caggttttc tatccattgg gaaactgct 65100
ttccctagca ctggctgcaa ccaattatta ttttagagag acagttaaat aatcgcctat 65160
catctgatg ttgcctgaca tttcttgtgg tggcagcagg gggaccctc tcctgtcctg 65220
ctggtgttg acagctacc tactgtaata aatggggttgc agattagaaa acaggtcctt 65280
accctcccc ttcccccacc acttattcct caagatccca tattatgaa atagagagc 65340
tgatacatag agaaaaatag ttccagttgt cttatcaagt ggttcaaaac tcttgagct 65400
tcttttacag gttgagttgt aagttatgtg gcagccctc ttttcaggtg agaatgaagc 65460
agtcagcttag gtttaattcc ctagttatat gagtgtactg agtagctaac tctctcaata 65520
gtttaattt tgtctgcaa tgggagagtt gatgctgtaa catttctcag gaccagaaat 65580
tccttttcag gctagcaact ttctctgagct gaaaatgctg tcattgttaa ttcattcttc 65640
tagatctatg ttttttaagt atattatcaa aggaatatgt gtatctgaat ccttgagac 65700
tctagttaat gactgtcaac gtcccactcc cagagatcc gagtcagtaa atctgggta 65760
gggctcaggaa aatgtttttt tgttgttgtt gctgtttgt tttgtttttg agatggagtt 65820
ttactctgtt gcccaggctg gaatgcagtg gcatgatctt ggctcactgc aaccctctgcc 65880
ttccagttc aaggattct gctgcctcag cctcccaagt agctgggatt acaggtgccc 65940
accagtatac caggctaatt tttatatttt tagtagagac gggtttcccc cattttgcccc 66000
aggctgttca caaactgctg acctcacatg atctgcccac ctcaggctcc caaagtgctg 66060
gaattacagg catcagtcac tgcacctggc caggaagtgg cattttcag aaaactcatc 66120
caagtgattt tgatgcactgt agtaggccag atgcagaaa atatcatata aagtataatg 66180
tcctttctc cctatctact agtatagtga ccatttctc ctgaatcaaa tactgcagct 66240
ttgaaactag ttaaaactag ggttgtgcca tacttctact cagtctcagaa ggaggctctc 66300

83

```
catttgagaa cacatgggtt ccttttgcta ccaggacata cagcttggaa cctctgattc 6...
tcagtgatgt agtrattttc ttagcataca gcagcctggg atttatcata atgtacatgt 66...
cacaggagga ta'raaatag agtaaacacc tttttatag actttagatt ttgaagtctc 66...
actacagcag cgttttgraa cttttttaaa aagaaccaat aatgatctct ttggatgttt 6...
atraaagcct ca:tcattgc tgtcccatac tacattctga tatacctaac tttgaaggat 6...
gtraaccatt gattgtcact acatacaggg agraaattcc atttcatttt tcgcgcattc 6...
ctacaaga agaaaattt gaggcacatt atttagcaa atttgtacca taaaaacaat 6...
agttatacat caatgtttta tcatttataa tgcttcaacc ttaatagtt tttgacagtg 6...
ctctctcc ac'ggaagaa tgttgtaata gattgttca taaccattc tctggcagg 66...
tatttccc cttcttatt ccactaagac tcacttgcaa cgcaaacacc aggcctcat 6...
ggcagaaggc agttggcac aagcctgttg ccatggaaag cttagctggg gaaggcattg 6...
attggtctct gcatacagag actgatctag aaggcttcag tgtgtctgaa tggacctgtc 6...
tgggctggaa tttcagtcag tctgacagac tgctaaacga gactcattg tacacttcag 6...
caacttgata actcttcccc agctgaaagt ccaatcattt gatccaacgg gaaaaaagtc 67140
aaaattgctc tgacacctaa agagctatct gaccttgtg atcaggagga gaatttcttg 6...
tgatacagca agtcaaagta gaaactggaa tgatggtatt gatgatgaag gcatttagag 6...
cagcagccac tgccattcat taaaagattg cactgtgtca ggcacatgct ttatcctatt 67...
gaaccatcat gctaaacttg ggacacttag gtcatcattgt ttttcatttt ccattaagaa 67...
cttgacgatt aatctgtta atctatctat tcatggtgaa ataagtagta tgtgcctag 67440
gtttgaacct ttgttatagc tgcaattttt tcagagttt taattgttga actacacgtt 6...
gtttctcgag ctattcctga tgtttgcaca gtgtggtgtc gaaagttgtt cctttaggta 6...
attcaactat tctctcattt agttatggcc aagaaaggag aggctaggg atcagttggt 67...
gtttaaaag gtcgctcttc cctgcagccg acttaatatg tctcctagtt cctagtccag 67660
tgctcraaca agatccggaa gctaaatatt ccctgaagcc tttataatct attgagaata 67740
cacaacaag ttgctgggag tcttttcaag gcagtaagtc tcattttttt tattagtttg 67800
gatcctga acccttaagg tagtatctca aatgcagtca agtgttcaac caatatttgt 67860
tgcaagaata aacattacta gtaagaaatg tgatcttgga gacaaaatt tatgttccta 67920
gtctctagtt ttcctatttt tgaaataagc aagtgtgttc tagatatttc gaaaggcct 67980
tctactttaa aacttattta actctagcac aaggatctct cacctgaagt ctgaagattg 68040
gtctatgtac tctctgtaac cctacatgaa atgctttaaa acttcattta cagttatgtg 68100
tccattaaca attggaatac attcagagaa atgtgtcagt ggacaattcc accattgctt 68160
gtaatataca gtctattact tacacaaaatc tcaatggtgt agcctctac acacctaggc 68220
tatatttat gatacagatt atagctccta gactacaaac ctgtgcagca tgttactgta 68...
ctgactactg attgcaagtgt aacacaatgg caagtatttg tgtactaaa tatttctaaa 68300
catataaag gcacagttaa aatataatat aaaagatgaa aactagtaca cctttatgag 68400
gcacttacca ttaatggagc ttgcagaact ggaggttgct ctggtgatcc agtgagtgaa 68460
ttattaatga atgtgaaggc ctagcacatt actatgcact actatagagt ttataaaac 68520
tccaaggtta gactacacta aatttatttta gaagtctatt tttatttcat tttgttttg 68580
aaatggagtc ttactcttgt cacccaggct agagtgcaat ggcaagatct tgcctcactg 68640
caactcaac ctcccaggtt caagcgattc tcctgcctca gcttcccag tagctgggat 68700
tacagocacc tgcccccatg tctggctaat ttctttaaca ataaagtgaa cttggcttac 68760
tgtattttt tactgtacaa acttttaaat gtttttaactt tttgactgtt ttgtagtaac 68820
agcttaaaac acaaacacat tgtacaacta tacaactttt ttttccttat atccctatgc 68880
tataagtttt cttttttcta tttctaactt ttgttactt tttaaacttt ttcgttagaa 68940
aatgtttaaa gggtaaagac acaaatcaga gaatttatat cttttaaatc tacatgtttta 69000
taaattaaag a'attaagac acaaacatat gcattagcct agtgctacac tgtgtcagga 69060
tcattaacat cactgtcttt cttcctactc tacagctggt ctggctgtaa ggtcttcagt 69120
tggaatagca gacatggagc tgtcatcacc tataatactg cctctcttctg gaataccctc 69...
tgaagtactt gcctgaggct attttacagc tacctttttt tataagtaga aagagtgcaa 69...
tgtaaaataa caacatatat agtaaatgta tagacagtt acatacctgc ttattatcaa 69200
gtattatgta ctgtacatga ctgtatgtgt tatacttta tataatacca cagcacagta 69...
ggttgttta agcagcatc accacaaaca cattagtaat gcattgtgct acttactat 69...
ggccagata tcattaaaca ataggaattt ttcagcocca ttataatctt atggacacac 69...
cgtcacataa tcaagtcatt gttaaccaaa acatcattat gtggtgcgtt actatatttt 69...
ggtataattt tcatatagta aaattctctc cttttataca gtcctatgaa tttgaccaa ...
cctatatagt catttaacca ccattatcat caatatataa aatatttaa ttatcccaaa ...
aaggttttt aagcacattt atagccaatt ttctccctg caacccagc ctctggaacc ...
```

84

```
actgatttgt tttctgtttc tataattttt ttcttttrca gaatgtcatc tacatggaat 69750
tttccagat gtagcctttg cattcttggct tctttcactt agattcattt tgagatccgt 69810
tcaaattgtt gtgtgtatta gtagctrgtt cctttttatt gctgagcaaa ttctttcatcg 69870
tatattgta ccataatttg tttatttatt ccccagctga tgaacattta gtctgtattc 64000
aattttgggg atttataatg aagctgttat aaatattcat acatagtttt ttatgtgaaa 70020
atttttgctta atttttcttg tgtaaaatatt atgggagta ggcttatgga gaattgagaa 70080
atatattta atgtatctat aatttttttt ctgggaaaat agtacacacc tntgtcggta 70140
ttccaaaac gggcaggg tcacaaaag ttaggcccca ctgccttc tgcttcct tt 70200
ggttttgtt gggtcttta agctctgtg tctggctttc aagtggagta tcaaaatgag 70260
agaatctg gcttagaaa aagggcattg ggttaggatt gaagtgctc ccaccttautt 70320
ctaattttc actgtgtgac attgcagcc tcctttct ttcgggacc ttggaaacc 70380
tgtccattgg taacaagtt gatggctaag ctccattttt ccatcatgtt tcctagacaa 70440
cgacatgcaa gttctgctc cagctcctt ggagctgta ttcagacact aatctcaggc 70500
cctcaaggga agcatcattc acacttcc tgcttcctgc agaggcacat gtagtacaat 70560
acatgaggct ttctatggag ctactctcat tttgttcat taacttctct cctgggag 70620
aggcatgcca gggaggcgt ttatcaagat gaggcacatg acaatagga cacaagattt 70680
caagtcctg tttgttatc acaagttgc tttcagact tggcaaac acttaatgt 70740
cttttgctta aaactgac tagctttta atgtttttg caacaaggac tcaaggctt 70800
aggatctttg tatctctt acatgtgtaa taaatatta acacataata tagctgctta 70860
ttatcaagta tcatgactg tacatgactg tatgtgtat actttatat gaaactgaca 70920
gtacctaggg ttctttaaa ctagcatgaa cacaaacaca ttagtaatgc attgtattac 70980
aacattacca ttgcaaagat attactagac aataggaatt tttcagtctt attataatt 71040
tatggaacta ccatcatata agcaggtcat tgttaaccaa aacatcatta catgttacat 71100
gactatattt tggtataatt ttatacaaaa aaaaattgcc tgacttttgc ctacctacc 71160
agctcctact tccttgagtt cactgcttg tgcactccaa ccccactcac ctatctgtta 71220
tccttttgac atacctat gcctccttcc attggcttt atcctacaaa gtttgctatt 71280
tacaaagttt actctgaat aacaggtcatc attttgaaga ctagaaaac aaggacaga 71340
gacttacatg gcttgcccaa gtttgcatag tttgtaaatg gaaaagctag ggaaaatcca 71400
cggaaacttg ggtttggatt ccatgctatt gacaactcc tgacttcctg cctactacaa 71460
ccttagtgag tggtcatgaa ataaagggtg tagggacagt gttgccaagag ttttatttga 71520
ttattttaac tgaaatctca taatggcttt ttataggata ttaatgactt aaaagctct 71580
ttaacttatg ttattgactt aagtttttaa attgttatt ctttctagat aacttttag 71640
caagttattca gcaaccacac aagactggat gtgcttttgg aaggtacat cggggactaat 71700
atggtgtgtc catatcaaat cccatcttga attgtagctc ccataaaccc cacgtgttaa 71760
ggagagtcc aggtggggaag taattaaatc atggtgtgt gttttcctcat gctgtttcg 71820
tgacagtgaa taagtctat gaaatctgat ggttttataa agggcagttc aactgactat 71880
gttttttgc ctggcacat gtaagaagtg cctttgctct tctaccatga ttgtgaggc 71940
tccctagctg tgtgcaactg ttagtctact taacctctt ttctttataa actactagt 72000
cttgggtatg ctttttattag cagcatgaca acagactact ctaatacaga agtttttggc 72060
ataattatg ggcttttagt tttgaaggttc tccaatattc aggtaggaaa ttatgacca 72120
ttaagatgaa tcttggagaa gcttcctttga gagtaattaa accagagcag cataacaata 72180
gactcctacc tgtatggaaa gtacagagtc acaagtcaaa acttcaggct gaaccttct 72240
tagcaaatg aggaaggtag attggagaca aaggacaagg gattttttt aggttgattc 72300
gtgtatttat gtaactcctt tctcctcaac agtacaggtt tcttcatgat acatgcttc 72360
aagacaagat tggagtaaag gattcttagt ggcttgttt tattcaattg cattcattaa 72420
aagtggaaa aggaatcaaga gtacatca gatcctgccc atggagcagc ttttctattc 72480
gggttcatg atagctacag tctctctagt atctttctung tccattta ataaataaat 72540
cagagaattg gactagaat ctaattctct gattcgctg agtcagttct tcggacaggt 72600
catgaaatg gtacttta cagctggac cttactcaa gggatgtaaja cttggacatgg 72660
gggttgagag gaagacattt catgacaage ctraccaac atagtacgtt accattaag 72720
ctagctacac agataagcaa actgaggcta ccactggttc agtttcttggc aaggtgtagg 72780
aagctgtaac ttgtagagcc tggaaaagtg tctgtgatgt caaaacgt acaatgtactg 72840
tctagtcact atatgggac tcaagtttat tacttaacta tattaaatct ccatttttc 72900
taaaaatgg gggaaaaaaa gctttacct tggttaaag cagttataag aattaaaaag 72960
ttaattaatg ttgtttattt attaaaatgc ctagcacatt ataagttca atatagtaga 73020
atttattat tcttaccatc atcatatca ccaccattat ttgcaatgag tgaggtatat 73080
gcaaagtgct atagtggttc aaggtaaggg gcaatcgctt ccaccagaa tacaatggag 73140
```

```
ggtajtgtga ggataaatgt aaaactgaa aatttaaact tgaacttgaa aggaaactgt 73260
gcattgggaa atttttgatc aaaatgttta tccaatagaa gaaacagctg agttaaatca 73260
aaugcataaa acactgataa cgacratgta tggttaatag agcattttgg ctgattgttg 73360
tgtacctaaa tjaagtgatg ggtggaaaja tgcattgggg ggtaagactt tgagaacaca 73360
gttcatttta gaacccagtt catttgacag caactacgaa tgttgaatag agcattttgg 73440
ctcattgctg tgcactaaaa tggaajtgag ggtgtaaaga tgcattgggg gataactata 73500
agaacaaat tagggaagtg gtcatccaa gagctatgct ccaaaaagat ttagactcca 73560
attatacacc actacgtctg gggttatat gaggtagtta cacgatgtga gacttttagt 73620
ggggttgtgg ggagttcagt tcatgactag cctgaccaa cacactgttg tgttttatta 73680
gaacgacta ttttgcttt gaattggaag ggagaatctg tgaactctga gtaaactta 73740
atggaatgct caagacttaa caggtcttgc aagatgcatt ctcatcagt catagtaatt 73800
taataatgct tcttcactca gcttcattca ttcattggaa attcatgcat gtctttggag 73860
tccataggat tctcagaata acttgtaac tagacgagag aaaaattgac tgttgaatta 73920
cttaaggcaa agactgtttg tgattcttga ttacttgatt tttgcatatc caaaaajgta 73980
atgatgatt aagtgagtga gtgaatgaat gattaaatct ccacttgact cctgagggaa 74040
ctagaatgag gaaatattaa aatatctaaa ggtgtcatta ttggacacac atatgactag 74100
gaactttgtt acttccatac ttctccattt acaatttctt aaaagagtac tttcaaaagt 74160
atatacaatt taatjacttg aaatactat tacaccaag caaagtgcct catacctata 74220
attccaacac tttgcaagga tgaacggttg ggatcacgag ataagagat tggagacatc 74260
ccgaccaaca tgttgaaacc ccgtatctac taaaaataga aaaattagct gggtatggg 74340
gcagttgcct gtaatcccag ctactgggga gactgaggca gaagaatcac ttgaaactag 74400
gaggaagagg ttgtagtgag ccaaagatga tgccactca ccccagattg gcgatagagc 74460
gagactctgt ctcaaaaaaa aaaaaaaaaa cctcttgct tttgttgctg ttttctttct 74520
aaaagtggag ctttccottt tccttttaaa gtcagtcact gagacagtat ttgttttjt 74580
gccctctgag agttattttc cagccgacga gcccacgtt ctgattctga tgtjagaata 74640
tggagcttag cccctagaga tatgaagac accaattgtt tcgttctcta agttttaaga 74700
aacaatgtt cttttctttt cttccttctt tacttccct tacaagattt tcttttcttt 74760
ggctcaaaga ggagaagga tggaagatag aagaaggaac tcaggttagt ctatgactca 74820
gaggcttga atagtttggg aaaaaaatta aacaacatca aactataact tctcattgtt 74880
ctctgctgct tcaacctctc actgacagtg tatgctttcc ataaaatatg tgtaatattg 74940
gttctctgac agataaaaa catctattt ctctggaatg tacagtcagt caattttgaa 75000
gaaggajat cctatcaaag aggtctgttg tcaaataact acttcccct ctcctgtctt 75060
tctttttccc ttcaagggaa acaaatgtct gggtcaga aaggccttt catcttaaat 75120
tgttctcttt tcattagtct cttagtttgg gcagggata ttgaggcagt ctacttgag 75180
tagtattttt gaggacatga aatgttaaat aataagattt tacattgta aagtucaatg 75240
ttccttgctt ttaagacag aaattaggc tgctaggttt tgaacaatta agttgatgag 75300
ctatttgga tatgttgtat aaatcataac cgcttgttga aggtgtgct gaaataaag 75360
tgtgacctct gaacaattca gggacctcct cttggacaag taagagtcc cagacttacc 75420
aatgcttcag aaatgattag atttaaggtg caacatcag gcacaactgaa cccttgagag 75480
attgccctat aaactgttat tgaagcagca tctgttttgcc aggtaaata ttcagtcata 75540
tggactggg cctggagtct ncaaatagtg cagccttcc cagaggaag acttcatggg 75600
ggtccaaatg ctgataagaa gttttttttt gtctctgtct gccatcacag catagagatt 75660
aagaaccggj tatttggaat cagacagatt tttgtgtatt atttacctgt tgctgcataa 75720
caaattugcc caaactcgg tgactttcta caacaatctt tgtttattat ctcttatgga 75780
tccctggccc aagaattcac atcgacaca atgggaagg atggaacace tgaaactaa 75840
actaaaatca ttaaagacc tattactca tgtgatgtgt gttggagctg tcaattcaa 75900
caccttatca acatctctgc att ggctctg aacttcgtca aacatggtaa aatcgatctt 75960
aaggattgg ctaaataaag tcattggcaga gacaactcat aaaaagctat gtaaacaatg 76020
gaagatgaat agcaaggatg aagacagaga gacagagagt aagaattcc aaagttgcc 76080
atgtttctct aacctgctt cacagaatca acagacaaaa tttgtagcct cctttccttg 76140
tcagatctgt gtattttgta tgtjaatgaa tattgcagaa agtagtagct tagtgataaa 76200
ttatncaaca tcccttctt gattctaggt tgtccagtac ttgccaaatta acattactg 76260
agaactcct ttggccaaga atttttacaa gtgaattc atttaattct cacaacaacc 76320
aaagttata attttaattc tccccttt ggattagaac ttagaggata tgttaaactc 76380
tcagtcacc atatatgtaa actactgcta aaaaggttta ttttaaagaa gtggagtgt 76440
tattttctct nataacattca cctatttag ttccagggag tacttctatg gcggacttat 76500
gtaataactg tgatcgtata agaaagtgtt ttggttcagg tattcttatc acattatcta 76560
```

86

```
acatatctgt gagacttaac tttgatctcc catgtcgtta tacttccaaa gccacctt·a 766·0
actaaaatct a·actaaaca aagaaa·gtg ·ttcaataaa tctgtgtttc taa·caat·g 766·0
tca·ctttcc c·aaaaagta aaa·ag·aat ttccatagct gtttttttct tt··tg·ctt 76743
tat·ga·at· t·tc·catac catatcattc acccatttaa agtgttc·g· tca·tattt· 763··
ttagtatatt· cacagatata tacatt·atc gccataatct aattttta·a· catttct·tc 7656·
ttccaaaagt a·cccagtac ccatta·ctg tcattccca gca·cctc·c ac·tca·gt 7692·
tctaag·aac c·tgaatcta ccttctattt cttcagattt gcctattct· acattt·ct 7694·
at·tatcaaa t·atactatt tgtggt·ctt tg·gac·ggc ctctttccac ta·catactg 77040
ttttcaaggc t·attcatgt cttag·ctgt atcactactt catcccttta tagtatat·c 7719·
at·aaatgaa atattatagg actata·ctat tt·attctat ggatatacca tatttgtt 77160
at·cattctat tagttgatag acatttcagt tg·tttt·ct ttttgactac tatgact·at 77·2·
gctgctatag aaattctttt acaagt·gtc atgtggccat atgttttcat tt·tcttgag 77280
tgtgta·cta gtggtgaaac tgctg·cta tgtagtaact ctatgtttag ccttttgagg 77340
aactgccaaa ctgtt·tcca aagtgattgc acagtttac attctcacca g·aatatatg 77400
ag·gtttcaa tttctccaca tcctta·caa cactt·gt·at tgtctgtctt tttcattata 77460
gtcattctgt cggtatgaag tgctat·cta ttttggtttt gatttacatt t·gtaacgac 77520
tgatgggt·t tgaaatcttt tttt·ttcc tattggttat tttgtatatc ttcttttggag 77560
aaatag·t·t ·caattcct gccttttt·tt tt·ttttt·tt tttt·t··ag a·aca·a·tc 77640
tc·ctcttgt cacccaggct ·cagt·tgat ggtg·gatct tggctcactg caacct·c·c 777·0
ctcctggtt caaggg·attc cc·tgc·tta ga·tcc·aag tagctgggt ta·a·gg·atc 77760
cacccatgcca agctaatttt ttgc·tttt ta·tagagat ggg·tttcac cat·t·gcc 776·0
ag·ttggtct ccgaactcctg a·ct·aagt·g at·tgcctgc ctcgacctcc caaagt·gctg 77930
ggattacaga t·tgaaccac catgc·cagc ctcttttc·a ttttttaatt t·gttg·ttg 77940
tcttatatta ttgaattgta agaatattt aa·gtattct agttataagc t·cttattcag 780··
atatacattt ·caaatattg tcttt·tttt tt·tttttt·tt tttgagacgg agttttg·tc 78060
trgtc·ccca ·gttggagtg caatg·caca atctcggctc actgcaacct c·gcctcctg 7812··
g·ttcaagcg attctcctgc ctcag·ctcc tgagtagctg g·attacagg t·tgc·accac 78180
c·cgc·cagc taatttttgt atttt·gata gagacg·ggc ttcaccatat tggcca·gct 78240
ggtctcaaac tcctgacctc g·gtg·atcca cc·gc·tcag cctcccaaag t·ctgg·att 78300
a·aggcatga gc·ac·gtgc ctggc·acaa atatt·tctt ttattctatg ggttac··at 78360
tagccttctt tatgtgtatca tttgc·gcac agttttagat ctttttt·tt g·tg·tt·gtt 7842·
ag·ttatttca tttatttcat ·t·tat·t·c· gtactcactt ctgctttcat t·att·atgc 784·0
cttga·t·tc cattatg·gt cagga·cttt tctagacaat g·tgatatgt ·cagtcgaatag 78640
gatagaa·a·a tgtcctt·ct ·tcctgaaac t·atatctca cttaa·ga·ag g·agatgata 7856·
aacaaataaa tcaaagattt cagaca·at·ga taaatatgtt taagaaaatc aagt·gagata 78660
atgaagt·gga aaattttta· gagg·tgtg t·cag·gtgg ggag·ga·ct ttaggtagat 78720
tcacactgtt ggcatt·ggg g·cagataat tctttgttgt gttgtagctg t·ctgt·gcaa 78780
atatcctaca atg·aagga· a·ctg·ctgt gtaaggatat ctgtagcagg atctctgacc 78840
tctacccact aggtaccatt agta·ctcc t·acttgcta taatcgtaca aaatat·tac 78900
agacactgcc aaatgttcct cagaga·gaa aatcactctc aattgagaac cactca·att 7896·
aata·tttgag aaagccatct ccga·tgatg a·ctgaagac agagtccacc ·tatgggaag 79020
cagtcgagca aaagccattca agatacatgg taaataagtg cagaagcaag ·tggg·atgc 79060
acttcatgt· tttgagaata gaaa·uaggc ttagagtga cagtgtggtg aataaggg·aa 79140
agaatagtag cagataaaaa tagacacggta ·gctcg·ggtc agattatgaa ggatctagta 79200
cacatt·aat·a ag·datttgg aatt·ctt·cg agtacagtat aattggaagc cagtaagtca 79260
g·ga·aaatg cgtgctctc·a aat·ataggaa ataagctota gatttggggt tttgtc·cac ···2·
·ttatttttat tttuagtttt tg·u·agt·tt tgtt·gttgtt tttgct·aag g·atcca·aat 7·3·0
cagaga·gtga taqagctagg actaaaa·cc aagttc·ag gctagtaagc ·atagt·tt 79440
·uctattaaac ac·g·gt·gacg aa·g·agt·ta cattt·attaa ctgta·gatt g·caattggcc 79500
g·ttactttaa ct·gacttt·c actg·aatca cct·gtttaa g·attcctaa tatagtactt 79560
a·ccattg·u·u atgaaaatca aagaagatga actttag·aa gaagctaatc ·aaatatgt· 7960·
t·a·agacca gcagcatcag cat·acctgg aaa·ttg·tta g·aaatgcaga atctca·gc·· 2·650
·ac·tc·aa·a ctactgaatt aaa·tctgtg cctt·gatagt ccctagttaa ttag·atg·a 79740
tgttaaagct t·gagaa·gac tga·ctagtt tatcaaaata tcatca·aaa cagtcgagtg 7920
attcaaatgg tttttttttaa t·g·gctttta ctgagtcaga a·act·aatga t·gt·tcatc ·7··0
attaag·tc· ·cattataaca t·tttttttat tccttt·ctt ·cttggctca cagc·cattct 7·4·0
tca·tcacaa agtcctatgt agtcttcctt aataacagca tacattcttt cctttcattt ·9·80
```

87

```
ctgcagccac cacctttgtc tttaccctca ctaatttgta cctagcttat tataqccata 80040
tcaaaattta tgcctcctcc ccttcatacc cttcattgcc tagagctctc cgaatctcca 80100
acttcatatg gcttttctt gtcttcacag taaaaattcac attttccaact ctgactttta 80160
aggcttcta tatcaaaact ccaaacacgt ttccagaga atctgttgtg tgtatgtctt 80220
taagtccatg tctttgttca cacccgtgaa tgctctttcc catctttct actgccttca 80280
aggctctgct gaaatccccc ttccatcagt gatgtcaat ctacccagtt gcctaccag 80340
gttcacggc acttgttgac tgtaccaatt attttttagt gggtcggtct gatagcatta 80400
taattcagg cacaagcaca ggtcttcata acttaaattgt agttccatgga gaacagacac 80460
cacatctttg tctgctccca ctctaatcct taccaagcca ctaagcatgt agtagtaat 80520
cagtaaatat tttgcttttg aatctgaagt tgtggatgaa tgcccagatt tacaagcact 80580
tcgtttctac taatttattt tctttaaggg tctatgctac agttcagcaa ttgtgtaaac 80640
agcattgttt ataaagccag ccatggttaa gcactctcag atcactctgg tgtaggtaa 80700
tggatccagt ccagaatttc aggccaaata aaattgtgaa tcttttatttc aagaaccact 80760
gtattctgtg ggaccaagct ctgttctggg tgtcagaaca ataggtatcc ctccctgctg 80820
ctgagcagct gtatgggca aaaagcccg attcagcctg gcccgcctga acctggata 80880
gcccagatat aaaatgataa tacacattac ctgaatttctg tattttgtta cattttttatg 80940
tttgcttagt acttctttct taaggttgtt gggaagagca tctcctggta acttggctca 81000
gtgtgttgta gcttttttgta catagtttag gttccttatt cctggcatt gaactattaa 81060
gcttcctgca gatagccata acctacttaca gctttttttg tgtatatatt agctcttacg 81120
gacctcataa acctaaagag gttcagagga aaagtcccat cattctcatt ttacaactgg 81180
ggaagcagag gcccagcaaaa gttgttttaac tttcccaagt tcacaaatat gttatcagag 81240
ctgcaaccag acctaaggtt gaggctttat gaacctttagg ttactattcg gttaatagcc 81300
tcagtgcagc cttacttac taattattaa aataqacaa cattaggatt taaaccagat 81360
ggtctttttcc tgttgttcac actcttacccc actgtcagca atggcccatc agatactcca 81420
cactgattca tgaaaagca aatatttttct gttttctgttc taagctaggc ttgccaaaac 81480
cgagagcaat attctctatc cccagatgc atggctcaa gcacctatt acttttctctg 81540
caaagttatc ccttggcaa tggttcttca attctgatta tatctggag agaaataata 81600
aacctatta gatgctaatt ggctttaaca tctcagtgag tcaacaggct catgtatgtc 81660
ctacaagaag tctctcaaac ctggataata cagctatcaa acagtgttac tcaaccacca 81720
acttcaaaat ggctcaatcc atttgagttt acaaagcatt ccatttttata ggaaagaca 81780
tctttgctaa ggatagtttt ttaaaaacta gtttttgag gtggcaatta tttttcttgct 81840
gagttttcag aatagacaat ttttttctt atattaaaat agaaaaatga aaagtctgag 81900
tatttctagg agttccatggc ataatgttaa acagataaat ttctgatatc ctttcgaaaa 81960
ttaacttagt agcttgttga cctctggcgc nttatttttt ccaagcctcg gttttctat 82020
ctgtaaaatg gaagtcataa tggcacttac aaggccaaaa tgatgactaa atgagaggat 82080
aaatttaaaa tatttagctc aatgcctggc aaatagtaata tgcttcataa caattgggta 82140
ctagtattac tattattat taataattcc cataaqtcaaa tagaataagg agtcccttcc 82200
gttcactata gatattcaga atgtccttct ctcaggcctg aatgagtaat tcctctgga 82260
ttactaatat caaaagtcca tttgtatttg attgagatga ggaaaaaaaat gcaagatgga 82320
gcaggaacc agtcctcaca ctacatggtt tagggggtg tcctgcacaa tgaaagatat 82380
ctatgttttg cacaggtta gtcttgtttt tgggggtg tcctgcacaa ttgaaagatat 82440
tcatcagtat ccttggcctc tatccattat aagatgccag cagtaaacca acctactcca 82500
agttctgatg accaaaacta tatccagata tttgcctgact ggtggcactt gcccccagtt 82560
gacagtcact aattacaca tacatttgtc catgatgggg acatgtaggc tcacgggta 82620
gccagtcaca ggcaggcaga caagactggg gcatttttt tctgttaagg cccagttatt 82680
caaatattt aggcactttc tgtcccaact attaacct gccatgtagc ttcaaaacag 82740
ccaagacaa cacatatatg acctgttcc agcaaaacta tttatggccc cttaaatttt 82800
aatttcatat aattttatg tgtcaataag taatatttt aaaatttta tttaaatacc 82860
taaaaatgtt aaaactatac atgagtcgta caaaatcagg tgtaggcta gacttagccc 82920
ahtagcccata gtttctgac ctttggacta agaaatacat gaagcgtaa cttcatattt 82980
atccctaaga taaaatgggg ataaatatga tacttttctt aaaaccatca aattttatat a83040
taaattttag agaagcata ttattttatt aaaattagta ttgctatatt ttggaataga a83100
agccaagcca aaatgaattt tagagataaa acattatatt ccaaagttat atcttccttt 83160
ctatgggctg ttgaccata actaggtcc ccagaggcct trattttctg ncttcatttt 83220
ccttgcttt taggctacct tgtaggaaaa acttaagaag ttcccatgcc attttaagt 83280
agaaactaag tcatataaga cccttttaga cttcccataa ctggttaccc ttagataggtg a83340
tccaataagg cacctcaaaa tattctaagt gctctagtgg ttgtcttaata tatttcatca a83400
```

88

```
gagaatggtt gtgtaatata cgattgttta atccaaggtg gctcctataa atcctttttg 83460
aaatgttcaa gtatctctct caca actttg gggtattagg tttattcact tccttgttca 83520
aattaagcagc atgtgtacic cacatcttta tgaqtacca gaaaatcagc aaaaggtgtg 83560
ggcctactc tcaggaaat ggaatctgat ggtgacatta ggactgtc atacgagatg 83640
atcctcaaac agtacacct caagcaagtt ttgttttctg acaagagaagt ggactggcaa 83700
gtaataggca cattttctgt cacctcctct gcattratca tgaggacagat tctgagacat 83840
ctttacata agtttttttc ttctacccag agtgctttt tgagacagat tctgagacat 83900
cataaaatt cagctgggaa gaatctaca attaattacu gctatcacca gtgaatgga 83940
gataagcat tggctggcaa aagtcacagg gtgttacacag gcaaagtctc agtcatctc 84000
acagttctc ctggctagaa atgcttctgg ctataattacc cttttttgaat gattttcatg 84060
tactaatcag atccaaagaa ggaagatgat tgtgacatcc aaaatccaag ggacgactac 84060
gctggtgagg tgagacaatg cccagagctt tgaagaaggt gcttttcttt caaagctgtg 84120
ttcaaccaaa gcacatttg tgcataactg aattttggtt ggctctagcc tgagcgcatt 84180
ctattgttgc gttagcatgg gaaacgggag ggatgcgaga aatatgcat ctctctatt 84240
ctcctggccc cttgtgaatg ggaatgtctt cttaatgagc ctatccaga gagtctggcc 84300
tttcagataa acaaataacc atcagcagga gatcctcaca aaggactgg gcaaaataag 84360
gtccacttta gtgacaaccc aaataaagga gtcctaagag gttgtaagct ggtggctaat 84420
ggttacatct ccccattgt gattccttgg ccaggacatg tattgttgag ggtgccaaa 84480
aagtctgtct tatttatac aggaagaagc cttctctggc ttgtcctgg tactttgctt 84540
tatttttat gtcggctag gggtcctgct ggaggactt tacaaagtga ggagaaatct 84600
caagctgact ttaacctaac acacttttct tatctttcta gtaatatata tcagtttttct 84660
cacttgggaa atgggaataa aaaatacaact cacctactag aattgttggg atgattaagt 84720
caatgatttc tcagaaagca cttccaagag ttccaatat gtagtcagca tctgatacat 84780
gttggctgca atcattatta gtaacagtat tatcatcacc attttccatat gtggaaagat 84840
acaaaaagga gtgtccaggg gtgaggatc tagttccaat tctgctacca gctggctgtg 84900
aaatttttagg caagtcatct ctcatgtcaa ctgagagtgc tgcacgggag ttttttattca 84960
ttttgtaaac atatttggag gacttactaa gtgccaggct ctatttccag ggagcaaata 85020
tataaagctg aataagacac attttctgta ctcaagagat ccaaaggta atggaggaga 85080
cacgtaacac atgtgacaac atagcatgag aattgtgtctt actgtgtaggg tgcatgcaaa 85140
atctctgtga gacctggcac ggaattagaa agactaaagg ctctgtccca gtcaacctt 85200
attagtgct ataactgaag catccaaagt ataatctggg tgattagggg aagaagaagt 85260
cacctagctg gtaaagggcc ttaagctaaa gttccctctt tttatgttcca gagtgacccac 85320
ccttactaaa gttgcttaa aataaaaaaa ttaagataca agtaatgtgc agagagggaa 85380
cacattgata agtaactagg gtttgaaat gggagagcc aactcaaatt ttagcactgt 85440
tatttttgtta gtttaatgat ttagagtcag ttcttttaac tcttagagat tagttactt 85500
catcagcaag ggtgttacta aattaataacc tgctagacat tatttattata tggagagaga 85560
gagcttggta agctgtaaca tttacattct agttggtggt tgtttctgtt gctattatta 85620
ataqtaaaaa caataaaatat cctgttgttt atttttttga aqtgctcagt ggctggtaac 85680
tgaattagag tgcctgaga tatagggaag ggtttttgt tttaataatc attatctttt 85740
ttcaacagaa taggaaaaat ataagcctct ttttaacttt aatacaaaaa agtctttata 85800
gtttagtgtt gaaaaacaaa taattttagg taagagtatt atacctgat ttctgattaa 85860
cttaaagcta attagagaag taattttagg taagagtatt atacctgat ttctgattaa 85920
gttaagtatt attatactgt tgtaatagaa atcctgaag tgctttattt attatctgtt 85980
ggtagaatga aagggtaaga agttgtaata aataaaaattc ttgtctgagt caaagcaaag 86040
tagagattaat ataggagaaa ttattatat aaatatggga gttaaagaag aaaccrggat 86100
tgtaattttt ttagataggt gacccttgaac aaacctcttc cctatacttg gcctcgattt 86160
cgccatggga ataagctagg gtatactcta gataattcct aagtgcctt ttagccttga 86220
caaactatga tattttacc tgtacaatac ttaaacagtg attaagaggg agagacacc 86280
agaaagaaag aaatagtta tgctgtgctc aaatgcctga tttataaaaa agagaacaga 86340
tcatcaaac cgactaatta aaattaaatg tataattctc gttgatttg agttggcaat 86400
ttcaggatta taattacaaa gtaaatccca ttcgaatctg aaatgtctc tcagttctct 86460
cttagctca ctagtgctaa gtacagaggt ttcatgaaaa tcaggagaga aagagagaga 86520
cagagatgaga gctgttaaa aaacgaagaa caatatacct ttatgagacta tctctctct 86580
aagcagggtc ctcatgaaag gctcaacatg tcattgcct aactgtttaa cctctgtgt 86640
ctgattttt agtcttcaac tgaaatcaaa ttaggtagtc ttatgtaggg aaataaataa 86700
ttgtacact tttgttgttt gccatcttta ggacacaca aggttaagga attcagaga 86760
gccacaatcc ggaacttcag gttttttgaaa tttctcatg aaaatttagg aagtcctaaa 86820
```

89

```
ggctgtgaaa aatcattgaa cttcattggc aggcaggacc ttgcttttcaa aactctatga 86480
ggctacaaat cagagattga aacctaaaga gggaacaggg ctttcccaga gtaacctgcc 86440
ttcccagaca gaattaggac tcgaagtcac agctagacta gaactctact gattccaaat 86500
ccagtataac caatctctcct gtggacctgt tcttcttggttc tttgagtgt aatgcacagaa 86120
ctgaggttac aattctccttc ggatgtaagt atcccagcc cacagggctg gcagttagac 86180
aaggcagtga tggatttggg atgtttgttg tgatcctgta taaacagtt tctttagacac 86240
aacttatagga catggaaagt aattacatca atcttgacc ccagctactg ttaccaattc 86300
aaattaggac aacatattgta ttaagtaca ggtagttatg ctaactaag aactggaatc 86360
tgaattccta cttcttattt ctactcctcat cgcttgttag tacttctattc ttgatccacc 86420
attaacttc tgtgagcctc agtttctcca tctttaagac agtgatgata atgacagtat 86480
ctgtacaaca gcttaacttg aactaaatga gaaaaactaa acaaacaca tagaattaag 86540
tattaatttc tgaggttagt ttatacatgt tttaagagct tagagaaaag gaaaaaacat 86600
aagtatccta aggagattag gaaatgtttc cttggggagg ttgaaagca gctaagcctt 86660
gaagaatagg atgtattttg aacactgga gaagagatga gaaggtagtg aagtggaggc 86720
aatagcctac actatccaga gacagtttct gattgtccta atgctatggg ctctctactt 86780
cagttcaaga aatattccaa tctttgatac cttcattcaa cactcctttc tatttttcta 86840
attcattc ctgaatgtct tccctgcaga gaattaggcc tacttattga aataaatcac 86900
atcacagata cctcttttct tctcttttgt taaaagttct gttaaaatat atatattgtt 86960
aaaaaattta aggttatctc cagataattc cccaaatgag tagagttagg ctttaaattat 88020
attatattc cttcttctt gctcttcact tgccaaagtta tactaatgtt caataatctct 88080
tctatgtgtt ttggactta cagtatgtga agtttctatt gccacctatg gccctctcag 88140
ttagctgatg caatcattra gatctataatt gttggactct ttatacgaat gagttgctag 88200
agctttagag atgtttgcctg acacgtagca ggctctcaat aaatatgga ttgatggatg 88260
gatggatgga ttgatggatg gatgtatcga tggatggatg gtcctctccc cctcgcttt 88320
cttgtcrgt gatgcccgcc tcgccgttg tacggtgtcc gttgattccg gctcctctct 88380
ttcgttcttc gttgtttccg tcctctcttc tttgtgcgtg cttttctttc cctcgcctct 88440
cgtccgttgt ctcttttctg cgtctccgctc ttctcttcgt cgcattctag ttcgctgtcc 88500
ccttgtcgag tacggtctct gttccttgcc tcttttcgttt gtttcaaggg tcactcattg 88560
cgttatcctt cctagccatc gatatcgttc gtctggttct cgtttcctct cgtgtcctct 88620
ccttatcgt cgcgcatcag atctcgtgag cgcccctccg cgctttttct ctcttgtctg 88680
gttacaggat tacgatggcg ttgcttccc gcccattgcc gttttcgctc cgtcctcttg 88740
cccatgcct cccccagat aaatcantnn nnnnnnnnn nnnnnnnnn nnnnnnnnn 88800
nnnnnnnnn nnnnnntaac tccagcttca gtagagatca ccagtcacgc aaagcaggca 88860
tacctgaaa ttatttatct ctaggatacc ctggagctg tcaaatgtag ataggagcca 88920
agatcgtatg ttgtaatttt gtgatataga aaattggtc aattccatg aagcaaggcc 88980
ctcagcccta tggctgcttg tataagatac tgtgccctt tttatcctgt gtagataatg 89040
tgtttggagt tcctctttta gtgagaaaa atagaatcct tactcactc gatcccaaag 89100
tctgtattg agacggatca atgcttggtt tgtaggggaga atattcagaa caaaggaagg 89160
agcaggaaca tagaagtcag aagaccttaag ttcaagacc aagttcaaaa cttataaact 89220
taattcattt attcattgat tatgtattga ttccttactc ttagtcaggc tttgccagac 89280
agtgataaca cagtagtgag taagggggac aagacacctg atttccatgga ttgtaagata 89340
agtttggtaa gagagaaaaa ttaaataaat caactgaata agcaagatta ttgtaagata 89400
aaatttccc aggacagtga gctgctgct gtaatcccag cactccgtaa ggccaaggca 89460
ggcggatcac ctgaagtcag gagttcgaga ctagcctgac caacatgaca aaaccccgtc 89520
tctactaaaa atacaacaaa ttagctggtg gtcatagtgt ggtgtctaa ttcagctac 89580
tcaggaggct gaggcaggga aatcgcttga acccgggagg cagaggttg cagtgagcca 89640
agatcgcacc attgcactcc agcctgggca acaagagcga aactccgtct caaaaaaaaa 89700
aagatcacc cttggccgcc agctccgacca aacagaagga actcttggaa gaaaacacga 89760
ttctctgag aaaaagcgaa tacactgaga gaaggaaaca tacagtcatt cgtttaaaata 89820
gtgggtcagt gaatgcctt actgagtaaa agtgacattc aagctagat tcaaaggctg 89880
gatgtcattc atgctacaaa acaatttgga gaatattcta tccaaaggga aataattgtt 89940
gcaatgttt gaaaaatgga aggacaatca gggtagctgg aatgctatg gcaaggagaa 90000
gagttgcaga agattaaata agaaaaaac agaaaagtaac agataaggca gtgcttgaca 90060
ggccataaaa agacagtga cttttatttt aagtgcatga caacacctg gaaggtgaca 90120
agtagaaaga gatgtggtct catctgtttt aagaaatttgg tccacctgga tggccaggt 90180
ggctcatgcc tgtaatccca gcactttggg agcccaaggc gggtggatca cgaggtcagg 90240
```

90

```
aattcaagac cagcctggcc agcatggtaa aaccccgtct ttactaaaaa tacaaaaaat 9????
tagctaggca tagtagcgtg caactgtatt cctagctact tgggaaggctg aggcaggaga 9????
attgcttgaa cccgtgaggc ggagaattgca gtgagccaag atagccccat tgcactcag 90400
cctggtcgac agaggggacc tccatctcaa aaataaaaaa atataaaaat aaaagaattt 90460
cggccgcca ctgaattctt ttgtgactcc ctttttcttc ctgaaaacaa ggattaaact 90540
actgattgct cttcacaaga gttgtgtctaag tgtcaagatca tgttcattat aatatttgc 90600
tccaaattgt gctctgataaa ttttgaagtg aatgtttcaa taacaatatg aaaatgcttt 90660
ataaatgta aggggctgtg caaatatcaa gtattacaaa taacaatcat ttcccaaag 90720
ctctgactcc tttcacttag tttgtgtgga acaggtaata taattggca taaaatgctt 90780
tgaaaaccct atgctataaa aagtacttt atatttagat tcattgtttt attgaagttt 90840
gcatttggtt cttttattcc atagcaccaa tgtatttctt atttttggg tagggaaacaa 90900
cagcagact cagtgtgtt atttaactc aagaaataaa aatatgcaga gataaatga 90960
tgggtgaggc tgagagtcaa gtgagcaagt ctttggttag aactggcac ttcttcactc 91020
tcttacctga gtgagataaga gctggtcctc attagtcata ggcccccgt tacttataaa 91080
gaagttgtga aaaataaca tgacaatgat gataatttaa atgacaatat tttagtaatg 91140
catataagata tatactcatg ggtatgtata tacagtccct tgctactttt ctcaaaaat 91200
gtttttctca ttattgttt taatttagtt cacactcata tgcacaggta gagtacggagt 91260
attccaatty ggtaaataggc catgagctca tcaagcaatt tgcttcaagg tcacactgtg 91320
agtgatacag gagttgaaag cacatcacag agctcccaag tcctattgcca gcactctgta 91380
tcaaaccctc tcaatactg caggagttgg tgaaaaaaca aaaacaaaca aacaaataaa 91440
caaaaaaaa catgatcctg agccctacat tacacatta ggaactggca catttcaca 91500
ctttagaaaa tattttgatcc atgtgtcta gccctcttcc ctcatgtaca atacacaggaa 91560
acagaggacc aaagttagga gccaacttgg gcatgggat ttcctgcaa ctgctcaacc 91620
acctactgat gcttcagtc tgtgtctttt aactctcatat gtagtcgatg actaaggtgg 91680
atgggagataa tgcagtaaaa gtcaagggag tcccctctga ggaccatctt accagagagg 91740
gaatacaagt aggaagaaa ctcttcagtt aattgataat tttttcttg caatggaagg 91800
gaggtctctg ggaagtcggg tctgacctcg agggtgacat gccttttcc ctagcctct 91860
cttctctcc cttcaggat tgggcaaag taaatcttca agttcattta ccttctttaa 91920
aattggggag cttacacat tatcttggcc aatttgaacc taaaagttaa tgttagctcag 91980
aagcagtcaa atttagttgg attaacatga gtattaaggt gtgaagtaa tgcccaagtg 92040
tgaacccttgt agccttaatc aaatgtctgc cttagagcta agctttctctc ttggtgaaat 92100
ggtttaaaat accatccag tacatgtcct aaaatgtaaaa ttgagtttct ctgggataaa 92160
ggatgagaag atattttgta tttttgtaaca ttttactcag atgcaggatg tccatctcat 92220
taatattaca cttctggtgcc agttctctgg gcatcagttg cagagaagtt agttcaggtt 92280
gcaacatctc attagaagtt gaaatttgga ttcaggaaga ggagccatgga gtgggtgaga 92340
gccactgtct tctgctaag ttcctgctgc tatctgtatt cagagaggca tcctgtacc 92400
ttagcagtgc tattcagtgg gaggtctctg actttaatgt tgcagtgttc aacattctaa 92460
taggggcagca gtccagatgg ggtatgagtt tggaaagaca tcttatgaca gcttttcct 92520
aaagatgttt caagagataa ccctttaaaa ataacgaaag tagtttatcc atttcatagg 92580
aaatccagcg gttacgtag cagctcactt ctgaagtctg catgcggagg gcttcctact 92640
gtcccgtttt tgccctcct gtacatctgt gagaaatcat cacttatcac agtaacacag 92700
tattgtattt aattacattg acagcaatgg tgaaaggact atagctctat ttccttctaa 92760
actgttcaca tcaaataaac cttaaacatt tactcctctc ttaaaatgta aatcagatca 92820
cctcagccta ccattaaaac attctatcat gggtttcaat catgaataaa atccaaatgc 92880
ctaaacaag tctgatgcta gcctgatctg attttcatg acctctctga actcccctca 92940
catcagcctc cccttgtca ttgtctcttga gctacattgg tcttcatttg tgctcaaata 93000
tgccaagttt tctatctcct tagraattac tattaaaata cctaactaaa gtcctaaagc 93060
ccttcatgcc ttgaactctc tttctaaga tatttcctgc ctgctcctt agatcgagt 93120
ctcagccag tctattatc tcttagtca gtactcgct gagctcccc tttggctccca 93180
ctcctagcc tctgtcaatc ttcattacat tgcctttggt aatgtcttct tagcacatat 93240
ggattgtt aactattat tccatgccat gagatgatag atttttctt ttctctttt 93300
tctttttt agaaggtgt tgtctctca ccaggatgg tgtgcaagga catgtatc 93360
gctcactgca atcttgct cctgcctca aggttaaacc tattctcctg cctcagcctc 93420
ccaagtagct ggagtataag gcacatatca caagccacg ctaattttg tattttttag 93480
agatatgggg tttctccatg ttggccaggc tggtctcaaa ctcctggcctc catgtgatcc 93540
acctgcctca gcctcccaaa gtgctggat cacatggta agccacaca gtgcagtagc 93600
gatcctttct ttcttatggt ctcctgaatc tgtagcatgg aagaataaag gtgcgtag 93660
```

acagaataga tctattatcc aatgaatatt tgttgagga atgaataat cctctctttt

tacagaggga gaagttagc cagagaaga gtagaatca ttgtgttct gaaggtttta

tgttagcacc tttgcgca gctggact tggcaatta tagcatcaa gggttttagg

gtaatgttca tggaacccta gaaagtcac aaatagagat caaggtatt ttgagccctgt

gaaagtgttg ggatatttc gggagaaata ttcattgtt ttattaatac ttcaaataga

tattgaatcc attgtgtagca ccatcaatt tttcttttta attagcttag tcttgggaag

gtggaggag cctaaaag atagatgtc tcaacagcac ctggaatac cttcttcttt

ttcactgac gcatgttca atcttctgtg cctgaatac aggacact cctctttttt

tattaccaga ggatatctt cttaaattca ctattctt gataaatcta cagtgccaca

agctagagtc tggaatcata gaattccata gttcggatg cacttaatc agtgttcata

aacacaatg tacagcaaaa ttttctgggg agcttttac aactatgt ttccaattca

ttccctgac ttttattgt ttgttattt ttgttagaa taagatctta ctctgtgaca

caggctggag ttcagtgtca ggatcacag tcactatat cttgaactc tgggcacac

aatcatccac ctgagcatcc caagtaacca ggactataag ggtgtgcaa ccatgccag

ctaattttg tattttgt agagacgggg ttttaatatg ttgcccagcc tcatctcaaa

ctcctgacct caaacaatc ncccacctca gcctcccaaa gtgctaggat tacaggcatg

aggcacaa cctagcaat tgtagtattt ttggtacaga tggggcttcg ccatgttgcc

cagactcatt tttaatttct gggttaact gttttgttg ctcacctc cgaaagtgct

gggactgaa gtgtgagt ctgcaccagg gtcttacag tttagaagt ggagtatatt

agtttcctag tgtttcta acaaaatttc acaagcagga ttgcttaaaa caacagaaac

tcatggttc atagttctga aggatagaag tctgaattga aagtgttact agggcgtac

tctctctaaa acctgtaaat gagaatcctt cctgactct tcctacttc tggtggttgc

catcaatctt gggtgatct tgacttgaaa ctgtcaaaga actcctgcac tttaattcc

tcctctgtca cacacatggt ctttcccctc gtgtgtctat gtgtcttttc tgtttataag

gacaccaat adattgtatt aaggtccaac ctactccaat atgaccacat cctaacttt

tatgtctaca atgaccctat ttccaaataa ggtcacatc tgaggtgatg taagttgaaa

cttgttttc aggagaatcc caaaacatga catgacatgg ggtatggaa tctgtatttt

ttaaaaaaac tcaccaatg attgtgttga gacacattgc tcttatacac atgccttca

ctgaaaagtt ggagagaaat gaggctggg aaaggganaa gtcagagtc actcagagtc

tcaattgact agactgatgc actaagtatc atgattccgc caaattctt tctaatgtac

caagtgct tttgaatct ggacctggtg atgttcttac tggtctccaa ggaccagcat

ttaagtagaat atttccactg gtgcatgcct gcccaaaggg actacttatt actccagtgt

aactagagta ggattaatga atctttgt caaatcaat cctcatcc caaaggatat

agtttgg aagttggaa tactcaagca gtcatgaata agaacccag cttctctaaa

gttgtagtca tgtttcccca aattaagtgc ggatgtgct ggatatga tgaaattctg

tgttatatgt gtagagatac ttcctcctc atccatgact tacccagaac actaaacatgt

gttatatatt aacacgatcc tctcttgtgt tagccatgg gtggattctt aggaaaataa

attaacatct ggaaaacaa cccaagtccg gcccacaatg tttagagtg tactcagtgg

aaatattggt tatcgtacc aatttgtgtc cctccatt gtgtttttat gctggaaagtc

tgcacaatct gttaatctcc gtctcaaatg gctcctcac agcagatgca ttaaaatcca

cagatctcaa agtaagcaaa tctaaagtgt ttaatctatt attaatcagc tagttgcca

aatgatagag tttatcagga cctgaggaa gacatcaata tttatgtct ccttacagag

tgcatatttt tctctctttc ctttattccc accttttcttg cctctagatg agaatggaaa

tatgaagtct gttatttttc atgccattgt acaaggcagg aatgtcatgt tttgaaatga

gatgactaca atgttgtatt ttatgtgtgt ttagaaatat tgtattttag ggctgtgta

acctctacca gattggttata aacaaatgca gtctgcagtc catgataata caatggaaaa

gtatatgaa cagaatcc ctgggtgaac tcttcacaa acaattcatt tttctaatga

gggaattaaa gttcataata ggaaagggg ttcttgtga tcatacattc attttatcat

tcaagaaacc tcaatgact gctctctatt cacacagtca cgagtgcaaa ggaacaatga

agtaagtatt aacacataatg cctaacatttt actgagact tctcaagtgc gttggagaac

ctaagtgctt caaatactgt ctctacttga cggcctttc taacctggcc tgacttcctt

accctgccc taatttgtgt ctcttctcc cctttatttt tctttccttt ctcctctaca

cttttttttt ttcttttct tttcttagac agagtctttgc tgtgtcaccc aggctggagt

acactatgc gatctacct cactgaaacc tgacctccc gggttcaagc aatttt

tctcaccctc caaagtagct gggactacag cttacacaac cctatcccag ctaatttt

tgttttttagt agagacanggg ttttcaccata ttggtcaggc tggtggtgaa atcctgacct

caggtgatcc gccctcctcg gcctccaaaa gtgctgggat tacacggtgtg agcccactgtg
ccggcccct gtcctcattt cttatgtcc agcctcagtg gct'tcattg ttactgtttt
tggaatataa atcaggctta ttgtccc'ttt ggacctttga atccactgtc catgctgact
agatt'ctct tcccatcctc atttctggct actcatattt cagctcttag cacaaaatct
ttttagcaa ttcttgaaa gtgagtcacc cca'tctcac ccattaagag atagtgacta
tcggtat'at aagatagtca ctatctttt acatct'ctgt tttagtgtca tcctacacag
tgat'tgctg t'aaatcctt aaracctaag tctgatgggg tggt'tgtgag gagggggagt
gtggt'tagga gggggagttt gctgatttct agcatttgcc aatttctcatg atgtaaagac
ctttattatg gctgatttcaa tagttctagtc tatcagcatg atgtcactga atgagaagtt
gggaaaagat atacacagtc cactctctgtg agcccactatg cacagctct gacatacttc
ttgtatgtctg aaattattat attttattgt ttagtgtaa ttcttttact ctcctatgca
atgtaagctc caaaggaata ggaatcttat ttgttctggt tatgcttata ttttctagcat
ctggaacagg gccaagaata tgatagtaac ttaatcaata actgtggaat gaattatgaa
tgaatgaatg agaatttctca caataactcg gttcagctagg tgctactatt atcctcattc
accagtaag gagactaaaa tgtggctaga gattaaataa ctgtcctaag ctcaacacagt
cartgcatgg gattgccagg atttgcatca actcctcttg aatagctcaa agtctagaga
aatcctaagt tatatgaatt taacaaagtc actcctcttg aatagctcaa agtctagaga
agaaatagac acttgacaa augggttttta atggatcccat gatattgaca aatatgtacg
taatatagac tcagagacct cggttagtga gaatcaggag agtggcattg tgattaagta
aggtaatatt tgatggattc ttggattata tcattggaat gcttttctca ccatgctcaaa
gttgcttccc gctctggaaaa actgacattca ttgaattttt cttggataag gaatagaaat
cagtcttttac tcaaatgtaa agaaaagtac agaaagcatta ttgagatggt ttgagggtca
gcgggatatt tcagtacaca agaaaactga tagtcccaatt gaggcacgtt tccagaacagg
gtcttaactt ctcctcaatg ctgatcttgt gacatgttct ctgatgaagg gcttttttaa
gctttaggtt gaattgctca cccattctg cttctgattc tttgcttcct gcatcaaaat
ttcaggtggc tactcacctg ggatggtagt gtgatatagt ttgtatgttt gctcccacc
aaatctcatc ttgaattgta atcccaatg ctgaaggtgg gggctagtgg gagtgtgtg
ggtcatggct gcagatcct caggggttgg tgctgttctt ccaatagga ctgacttctc
ataagatctc gttgttataa aatatgacac ctcctccacc aatctctctc actcttgttt
ttgcccatgtc acatatcttg tcccatttca ctacccacca ttattataag cttccagagg
cttcccagca atcagatctct ggtgctatgc ttccatgact gcctgcagaa ct gtgagcca
attaaactc ttaaatacat tatctactct cagttattc tttacaggag t gaagaaca
ggctaacaca tagtgacgtg acagagtact attgcagtct ctgattgttc tagtagtcag
gcttgagaaa ctacagagtg atcactgaca actgccttgg cactcctgt gctgttttct
ccgcctccca atcccaaata gctactagt ctcttgtca ggtcttgcat catacccttt
ccttcatctc cacagctatc attctagtcc aagatatgg tctatctcatc cactccattca
tccaacatac gctgagctgt tgtctgtctt gtcccaggca atgtggtaga ctcaggggat
acaatgataa ccaaaagtag acatgactcc tacactcaca gatcctattt ccaggggggc
atattctagt gggggaagca gttgtaaatc aaataaccac ctgcataaat ggataatgct
actgtgatga aaattatcaa ggggagaagg acatgttgct gtgggagtct ctaacaggtc
atttgacata atcaggaaca ccaggggaagt attcacattt atacaaaaat cttagtctt
aaaaaatgag aaagccattaa gatatggaat ggaggaaagg tcattcctgc caattgaaaa
gacatgtaca aatattcttc aatgaaagga cttagctcc ttgcaggata gtgaaaagca
ggttggtttg gatgggtaca cagaacacag gcagagaatg atgtggatc aggctgaata
aatacggcag tgttagctc tgtttctaga tattgaggg aatcaatttt t tgactcctt
ctatatatc tagtctcccc ttct'tgctca ttttgtgcac ccttgccaa attcctctt
ctaaagract gggttgtgt gtat'ttgtat gcaggcactt accgacccc gcatgctct
attactctc tactctaaaa aatgtccattt gtttttctag tgcctgcaat gtaaggccta
aggccactgg catcaaagac tttgcaatt tagtgctaac tataactttca gctgtcactt
gtcaaatagc tgatataat ctttattctt ccatttctg gcttgtgag ctaggatat
ttcttaatc ctgctgagc tacattttta tactcttaaa ttgaaattat agtgtaaagt
ttaaatcatg taattaaata aatatttgag tatatccat gatgtactgt aagtaatggt
taaataatag tctattagat tatatagcca actactatc tatcattctt atctagtatt
tgttagctag ttaggacta tttctattgt ttagaacaac ttctttcgca tttatccaaa
atgtataac ctttgtccac caaatcaata tcttcagctc cttctttca ggtactatat
attgcatttg cttcataaca cctaatacaa tgcatgaagc atgctttttaa taaacattcc

```
ttggatggat gaataaaataa atgaataaag aaatgaagta aaagaaagtc aattttttata 100500
ttattcttag tgaggaaaaa aagagaaaag aatcaaaata tcttggaaau aaaattctgt 100600
tcctctctga gctttgatt tgtttataag ctgggagca tgttgctta catttattta 100660
gtctacaag tatcttaaca tcatcaacat aaggtttatg aagtactrta tactgcctgg 100740
aggaaggata gtatagaaat ttaaaatatt atatatgatc cttccaggaa gaaaaaaga 100800
agcaatatct attctgtgag gtgcatcaat tttgaatcac tctaatggaa gtgcccgag 100860
cagttggttt att ctctcaa atgtgaatta atttatacat ttcaaagutc ctgatggata 100940
cttttccattt taactaagta catttttgcc aaattcaaac tttaaaauct caacaaautn 101000
gttccacac ttgcttgta gaatttgcaa tattagatat aaatttatta taaaaggta 101040
tgttagaaac ttttcatact gaaatcgac acccagcaac ttttcttag gattcaagtg 101100
ctctaacatt tgcttgcttg tttgtctgtg tgattcggtg gttttattt gattttcata 101160
gaaaataata aatatgtctt gaaatgatca tttcattact gagtgttgcc agaggttcag 101220
agtccttgtg tgcattgca tttactctca ggttggcact ataaactgct actgcaattg 101280
tgataaacta tgagaacag aaaaaagaaa atttgatac gaaataatgc atagtaaat 101340
aatgctgggt gaggtcac tgacataata atgtactgta tggaaaaaga gggaagatgc 101400
tgttgaagaa actgaatatt cacgcagtgc acagtagttc aggtgtgctg agctcaacga 101460
atcaatgtga ttgcacagta ctacattgct gtcacagatg gtgttttgga gtaaacaaat 101520
accattgttt ctaacattaa attaatattg gtgattcaaa atgtactgaa attataattt 101560
gtgttttgtct catttgtaaa tttccttgg tttttagtt taaagatagc tataaaataaa 101640
agattgttct ctgactrcat gtttgtacat tttaagtat cattataata aatataattt 101700
gtcaacattg tgattcaga agaacaagtt cctttaaaaa gcgttcataa attacatcag 101760
ttcgaaaaaa ttgcattagt agatgatagt aaaagcctct aagaaaagtg ttgcattatgg 101820
ccaaggttta ttatacaag ttcacaaaac atttaggag gaatagaaa tgcagagaat 101880
ggcagatatg gaaacacag ctttgccagt aaaattaaaa tactgaagtt ctaagaaggtt 101940
tttaggggttg gataaaatgg aaaaaataag actgagacg cgccagagtc ctgtgagtat 102000
tgttgatgaa ctttaaaat gtgcaaartc aacaagctat tgaaaatgtgt gtgtgtgt 102060
gtgtgttara atatatgtat ctcttctca atgctttgga gatctttttc ctacaggact 102120
acttctctaa tttaccaata acaggctttg tggaaatgat accaatttta aagaaattta 102180
ctttacacct atatttuct aaaaaaaaat ttgtgaaaca agggcatcct tatttttact 102240
cttcaaaa t gttattata ccaagttatc ataaaagcag taaactgca tttgttagtt 102300
tttaaaatttt atttttaact tcctatgct ataaatgttt gttcttgttt aggatgtgta 102360
ctgtgcttgt tagaaagaata caattttt ctcttaccrt tttaaagttg agaagattat 102420
ttgtaagatt gtgaaatggt ctaagcattg cccttaaa tggggtatt gtgttaattg 102480
taagcactgc aaagtgggtt gctatatgc ggtgtgta ctcagtgtca aagatttag 102540
ttccttatg anccagtcct agttattcaa gagtcattaa acagagatac acaatttaa 102600
attgttttc agaatgaatc tgaagagagc gaagattga gtggagaagt cagctagatc 102660
atccttgtct atttatgcag acteettcc ataatttttc ccaatctag tttatgccta 102720
atttttatac aggaatttct tcctgacctt ttaattgcct gtccttaggg catgaaaatt 102780
atcagtgtaa tttacacgac cattcttaac tttcaaac cattccaacg atattcatct 102840
aagaaatgc cagtgtttgt ggagccattaa tttgtcacac agcattgtgc tagacattca 102900
agatatccca ttgagtatcg cacgaaaatc ctgacaaac catccctata ccaactagt 102960
cagatcctca ttcacagta ttcataatac ataaaattcc cctgcatagc actaggtcac 103020
atgtagaaa taattattta tcttgtatat gccttttcac tcaactgtga gctcctagag 103080
gacatagata aaatctgttt tgttcactgc tttattccta gaaccaaaca tagtatctag 103140
cagcaagaac cagtcaatag aagtttgaatg aactaaagaa gaaatggttg gtctaggaag 103200
gggttggaac cataacaagc atactgttat ttaagaaaca aagaatggcat ttaaaaagca 103260
cagaattgaa taaagcaga ttactgagc agaataca cacaagtggcc aaagtaggcc 103320
agattattaa ctacaaacta aggaagtgaa ataacctttt gtgatggaa catgaaagca 103380
aaagtctcaa craagaatca tgttaaaaca tagaaggaaa attagaaaa catgttttaa 103440
cttgtacgg aagaaaaaga agtgggctac cctttttagt gttgtagttag gaaagaaa 103500
tgactgattt caaaaggcaa aaaaatctcg ggttttatte tttttgccaca cttagttttt 103560
tctttctcag agtaaaggca gtgatattat aaaagctac ajcatccaca gggttggg 103620
aggagtatgg cratgaaaact aaggggttat gaaagatgat ttagaagtt ggttctttttc 103680
atatactag gttgtatttc ttgaagtgtc caagccatgg cctgttgttt ttcagaactc 103740
acagaaggtg gtaaagttca gagagtgcc ctgaaataag tagatgctc tagatcccat 103800
tgaattcctg caaggggcc tcaagcata gatgaattct actacttcca gcttcctcta 103860
gagttagcag agtccaggtt tggggagtcag gagacccaga ttctacttcct gtctgtgccg 103920
```

94

```
tgttctctttt gtggtttttga gcatatcact ttatctcttg tatcctcagt ttcctcttgt 10....
gttaaaagga gattttttctc atcactagtt ggtacgacaa ggacattttt aatttatttt 104...
tttccctaa ataatgcatg cataactac aaaaatcaa gttagtttcaa gtcataagac 10.1...
aaatattcact atttctcttc ctcctrcctt tctatcttgg atttccagctc tcatagggga 104...
tcacttag ctctcttagc tgtttctttct gatattttac cttgtatct cttgtattgc 1.4...
cttttttt ttggctgct atacacatata ctctagtctg ggtggcttaa acaaaagatg 104...
tttatttc agtttctgag gctggtatgg acaatataca tgtgaggcca atttggtgt 104...
tgtaaaatac ctgcttcta gtttactagt ggcacttt ttgctgcatc tttgcatgaa 10440...
agtgacatca gagacacaga gaattgagt ctttctctct tcttagactg tcatcatgga 10...
gctccactt cgtgactct tctaaatctg attactgcc aaggggcatg gctcacacct 1.7...
gttattccag cacttttggga ggcggatggtg ggtgattgc tcaaggtcag gagtggggga 104...
ccacttac caagatggca aaacctgtc tttacttaaaa atacaaaaaa ttagtctggc 104640
ttagtaatac atgcccgtag tcgcatcac tcggtaggtt gagccatgag aatccacttga 104760
gcctggaaag tggaggatgc agtaactga catactacta ctgcctcc acctggtga 104768
cagagtaaaa ttccatttca aaaaaataaa aaataatat aaatctgatt accccccaaa 104820
gatccatct tctaatccta tcccactaga gattagtgtt tcaacttatg aatttgtgta 104880
ggtgtacaa acatggagtc catagtaatg ccgtttcctg atttttcaat tttagatatt 104940
agtttttgt tatactatgg cagatgcaga attatacatt aatatccagt atttacctta 105000
tgttgactaa atacaatcct tcacatccaa gctaaatata acattcttaa actttttgtg 105060
tttcttcttt attgtttttt gttgtttggc ttactacctt gctttgttta ttttattctg 105120
catattttat cattgactca gatctcaaat ttctgacca accacagaat tcctcccagt 105180
tacaatcagg autgtgagat gatctttcag ttgcatggtt ttcccacaga ccttcctttg 105240
gcagcctcat tcagctgaag cctgacttag ttgctgttgt gacctgcagg agagcctatct 105300
tcctaggacc aacacttttc gctagttcag gctttctat tctctatatc tcattcttcc 105360
tcattacag ttatgctctc atttggtag aatgcatttt ccgtagtttt cttaagaaag 105420
acaatgag ggtaaatttt tagatcttgc atatttgaaa tagttttat tccactctta 105480
aacttattg attggagatg aaatgcaagc ttggaaataa ttttttattca gaattttgca 105540
cacattattt cattatcttc tttttccat tgtggctgat tagaaaagtcc aatgtttattc 105600
ttcatgctcc tttttgtt gggatttatt gtctctctctc ctctctcaga agctgttacg 105660
attatttttt tgtctctaaa gttctaactt caagargatc gctttttta attcacagtt 105720
cattcatagg gctagaaaga cattctgtaa gctttttttca cttgaagact cagacccttc 105780
atttttaaga gatttttctt tgtaatttat ttatatatat ccttgcttc attttctgctc 105840
tttcatttc agtttcatat gttatgcttc caagatttta ttttttgac ttttattttta 105900
ttttttaggt gatacttca acttgtctt ttagtatttt tgtcaactaa tatatttatc 105960
tgttgcatta acttctagga gttctttttt gcttttttaat ttttccttca ttatagcatt 106020
ctattcatac tctagaatga gtgtatgttt tcttaatctg ttcttttggt ccctaaattg 106080
tgcttgtttc ccatgattta ttttcattca tttgcttttt aatttttaatt tctccctctc 106140
ttctctccaat atttacaggc cttgactat ctgtctctat aagtaccaca aagccaatag 106200
gctcttctgc atgcaagtag gaagatggcc agtaagtttc ctctccctta ttctcagcta 106260
tactggtga tcctaaccta gagtctaaat acttgtctt cttcagagtc cacctccagt 106320
ctctctgttcg gctgaaaag agggattacc tggctgcata ggctaggca ggggctctgg 106380
gatttttccac aaggttttac cccatccat acttcagatt tcaaagtatc cagtgcttca 106440
tatttttaca ccttttcttgt gatctgtagt tttatggctt tctttcttat gactctactc 106500
acttctctt cacatatggt tatttcagct ttctctaact tgctaagtca gttacttca 106560
ttccattcc atctctcaga tctttgactt acttgtctt ctcttcctc ttttaagtttt 106620
tttttgatc tgtatattca cactatttt attatttgc tttgatttat gtaagttgg 106680
aggaaatagt aaagataagt atgtatgttc acatcacat gtatcagaca cagtgtttatg 106740
aactgtaat tttaaaata aacttttatt gtagtttttg atttacagaa agttcacaag 106800
cttagtttcag agagttcca aatatctctgt gctctatttt tctctcctat gattaaaatc 106860
ttacattagt gtgttgcatt tgtcagagtt gatgaaccaa tactaatact aatacattat 106920
tattaactaa cactaaatac tttgttagct attttttgg aagaagtca ctatgtccag 106980
tctacattta agaagtgatg agttacactc tatctctttg agtgcagagt gtctatgtaa 107040
attatttcaa attattctga ctgtgaaatt tgtttctttct cactatttat ttacatatcc 107100
agtcatttat ttatatcaat atgtattcaa gcatatctat ttctactttt gggttatat 107160
tcaatacttt ttcatttatt ttattgttca cattgtgaaa tctttttaa ttgtaaacct 107220
ttatctaaaa agctagatat gagttaaata atataatata acatatatat aattaatata 107280
tataatataa tgtaaatacg gtctacatct tagaaatagt tctttagtcc tttactaact 107340
```

95

CI.001205

```
aacaaagtcc tagacacaga atgctggcca ggcacatagg attggaacac tatatacttc 107   
tttggttaaa ttagtgcttt taaatatata ttcagtcatt tctaaatccc cagtgtcatg 1071   
ttccatcaca ggtcacataca atgccataaaa gctcctcaa ggactgtaac ttattaggg 107     
aaatacacat atatagacac taaaaaaaaa aacagtcaa cactgtcact aagtagcaaa 107      
ttatgtcatt ttcatagttt aagagtgaca gattcatgg cctacatgat caattggat 107      
gcatcatca tggctcgcat cccagacaag gctgcaatg attacacag agtgaaatga 1077      
gagacttctt taaccacaca gggtatacca agtatcatc tatcttttt ggaatgttta 10736    
aaaattatca aatcagaatc atcttaaaat tcactttct tttaaaatg tatgcaagat 1 7       
ccagcacttt tattttgttt catatttgt tttcgtctct gttcacatgt acatttcaaa 107      
atcacacaga caattccatt gtttatacat tgtagttcc agtgacaaa acccttttat 107       
acactggtc actgatcccc acagcagtcc tgtgaaatag gcagttacaa cagttattac 108      
atagagtctc atttttcaga tggggaaatg gaggcctgtg attttcagta agttgacag 10      
gtacaattg gagagggtgga tctagactc agcactcctg actccaaatc caaggtctg 10810     
ttccataact tgtagccctc gtctctgacac tggaaaagct gggtgagga gaggcaggag 108180   
agatggaga tctaaaaact catgtgtg gtttattagg tctctggtgt cttactctc 108240     
cctttctcaaa tgaaatgtaa tatctcacc ttagacatta aaatcggtg ccagttattc 108300    
tccttctttt tccaggaaga ggggattctc caccactaat cttttctatgt tgaacaagtt 108360  
gtttaatcaa aaatcatatt tgttgctac agctcgtccc actgacagc cagtgctagt 10840     
gccattcagc tgtcatacag gctgatgtgt caggaaatg gttgacgtag ggtctctggg 10840     
aatgtctga gctacccgg tcccgtcgcc tcccagtca ttttgcacac ttggtgtct 10840       
gcagcttcct ctgctaggaa ttgaagcagag agagtaagaa aacacacca gttaaagcttc 10860    
ttaaggtcc tttgaaggg tcactctgtg ggagactac ggtttgaaa atttcagctc 10860       
tgcacagtct taagccctgt tttgaagggg cacttttctc aatagaaatt tggtccttag 10870    
aactcactt cctctcttttc ctttgtatac ttcaactctt agtacgttca ggggctacct 108790   
gaacatgcat tggttattga gactttcaga ggcaggatct ctgaaggtct gttgccatgga 10840    
tcctgcaccc catttgtcaa ttttgcatgt tatttcttt tctaggtttg tggcccaatt 1083      
agttgatcac caaatctttt tcaagactc agtttctata ggcagactgc caggttttgt 108960    
attctgtttg cttcattcca catctatgtg gctcagacc agttatttaa agcctaggag 10900     
cctcacttt ctcatctaaa aagaagcact gagttttgc ttagagttat gattgagtat 1090      
tcagtgagat aatacaatgg tcctagtac atacaacar tcttaaaata ttaacattag 10914     
tttttactat tattgaataa actttgctat ttctcagtgc cacctgaaat accagatgg 10920    
ctacaaacc atacttgcc ttaagaaaat cacatctag ctcctcag tacttatgc 10960        
cctgtaattcc agcacttgg gataaaatg caggagaatt aatacacct aggagttca 1093       
gacaaggttg ggcaacatgg caagacccc tctctaaaaa agtcaaaaa attaattagc 1093      
rtggttctgt ggcatgtacc tgtagtccca tctactcagg aggtgagtt gggaggattg 10940     
cttgagccta ggaggtcaag gctgcagtaa gccatgttca tgccactaca ttccagcctg 10950     
ggtgacaagg tgaaactcag tctcaaaaag aagaagatca cagttagaa gcagatctag 10960     
aggatgacat gtaaataaca gattacatat ataatgacca ttgtataaa gtgattttat 10960    
atgtataatg attatatata gtggatattc tatataataa tatactatca catgttatta 10968    
tatattatgg caattatata tataatcaaa tatactaagt ctttgtcaaag tagtatactc 10974   
aaactacttg gggaggggag aatggaagaa tagaaragc aracctgtc actgctgtta 10980     
cctttgattt gattctgatg gtttcagaaa ggaaggccct gactggttc agttaaatta 10980    
cggttaagt ttagtaccta ttagaggaaa ggaaaaaata aaagcaaaga gactagcacc 10990    
aaattaaaag tatattttag gaacaccaga caatccattt gccagttacac aggggaaaaa 10990   
taaatagat aagtcgaaa agcacttat gcttagaatc tggaagcct 11000                 
tgaatgccaa gcagcacagg tcaggggaagg actcatatct tcaagtgtct tctgagaa 11010     
ctgattttga caatcttact tattagctc ccttactgc cttccttaac tgctttgga 11010      
rctgtatttc ttcttaguaa atttcttgtt tcttccttt ctctatacca atatttattg 1101     
ggccttgat tttatgatat ggtcactga aaatctacaa tctatctctc caatgatact 11060     
ttaacagaat aaaatgaag ttaaactacg gcagcttttc tcactaacat tcaataattt 11050    
aggtttaata aagcttgcct ggaatgggcc tattctgttt aggttttttc ttgtatttta 110490  
tttatttga cacagaatct ctctgtgtca ccagctgg agtacagtg cacaatctgg 11020      
gctcacagcc agtctcaact cctaggttca tgccattcct ctgcctcagc ctcccgagca 11030    
gctggactg cactctccgcc ccaacagcc tgtctagtt cctgtaatt ttagtagaga 11040     
tgggttca cctgttagc caggatggtc tcgatctcct gacctcatga tcccacccac 11050     
tcagctgcc aaagtgctgg gattacaggc gtagccaccc gtacccggcc agggctgttt 110740   
attttatata atttccttcc ttttggctg atrgaagtcc attgctaatt ctagtttgac 110760   
```

96

```
actttttatt acctcaacta gattattttg tccagaaagt ttactgacca tcttctaggc 110820
taagcacttt agaaaatata aaaaaagttt aattcacaat acttatctta aaagatctca 110880
attttattga tttcctttag acaatacagg aatctttga tatcaacagg ggtttggtac 110940
caagactctt acagaaacca acatctagac atgtttaagt cctttatata acatagcgtg 111000
gtatttgctc atactaacg cacatctcctc caaatacttt aaatatatctc tatattactt 111060
atatatacta atataattgta aatactatgt aaatagctgc cacatctcat tattttgatt 111120
gttatactt tacttttatt tttaatattt tcaatctaca gttgtgaatc tgcaaagta 111180
gaaccacacg atatacaggg gcactgtac tcaaattatt tgaggcagt gcaaacaac 111240
cagtgagtca gtcacactt gagaagactt aaacacctaa ctctatatata taaagattta 111300
tttgggttg tcaagacttg ccaagatcat agaatattaa agatcactag aaaaagaac 111360
tttgaagtaa atgaattgag aggcaaaataa aaatgtgcct gagaaatatc atataataaa 111420
gtcctgagt acatagttga gtcacagggg aaaggaataa ggctttcgc ttacttaaag 111480
tgtgtgcagc gagatgaac cagctagata agttggacac ggagtcactg cgcactttt 111540
tgccaaatag cgtccgctgt cagagagtct acagtgataag ccatctctc ctgttcgtaa 111600
taggaagtatg gagtctggac ccggccgcggt ggctcacgct tgtaatccca gcactttcgg 111660
aggccgaggc gggcggatcg cgaggtcaga agattgagac catcctggct aacacagtga 111720
aaactgtct ctactaaaa tacaaaaaaa ctagctgggc gtggtggcg gcgcctgtag 111780
tcccagatac tcgggaggct gaggcacaga atcgcttgaa cccaggaagg cggagttgc 111840
agtgagccga gatcgcgcc actgcactcc agcctgggcg acagagcaaga ctccatctca 111900
aaaaaaaaaa aaaaaaaaa aaaagtaagg agtttgtaag gatagggtttt caattattag 111960
aaaaatagaa atgctcctaa atcagttacta tatttaggaa agaaatagcg ctattccacc 112020
caagttttttg actgtgaaga gtcaaaggag gcacctgaaa tttagacca ctatacccaa 112080
aatacctaca tatatagaaa atggtgtatct caagcctcag agtgaaaaat gaacatccca 112140
gggaaaacaa agaggagaag tgcctgtctg tttcttgcca ggctgggggg ccaaaggaac 112200
actgagagga gaagagaga cacgtctacc accatggaac cttgctgcta aaaattgatt 112260
tcaagttttc crtatgtctc acagctggg aacttgaatt aaatgagtt tgcacagaga 112320
ttgccaacc aaaacacca ggaggtgaag cctcctgttt atttcaagtt taactgtagc 112380
ttcagctgtc agagcagat cacatcctgg gatcccacct ggagcatcct agctctgggg 112440
cacttcttta tctcatgagc aaggtggaag tctgagctga tcaagatgct gatgatgaag 112500
tggattccc ctaattatta aacttcctct ctactgaagt tttcaagttag aaggacactt 112560
tgcaaggaca ttttccaagaa aattcattca ttcgctggat gaacagaatg atgtataaca 112620
ggtaaacagg attgatacaca tactagtgtcc agagcctgtg ttagttacttt ttagttatttt 112680
acttcctatg tttccatgac ataagagatg ctattatccc cattttataa gtaaaagagc 112740
aaaactctaa aatagttggta atcttaccta aattatata actcataagt gtttaaatatt 112800
tatataacgt cttgtctgatt ctctgatcca tattcttact ttttaacttc ttattttcag 112860
aaaagtgcac taaaggccac atacttacaa aagagacttc ttttaatatc ttacaacttt 112920
gctatttaat aatcttacty ctaaaagatta aggcatttt ggttctctgac cttttgctag 112980
cacatgaagg tattggatt aaggttcata tactctcaca tgtgtcagtt ttatatcctc 113040
agttcccatg ntcaaaaaca aaagtgaaaa ttaaaatcaga gcggaaaaca cctctctatt 113100
caaraccaga ttgttagggc tgagctgaaa agtcctaag taaactagtt catcgcaag 113160
tggccagaga acaaattcta ggagctgaa atttgagatg ggagagccaga tttgcaaccc 113220
cacctttttc acagatgat ttcaggcagg ttccttagat gactgaagtt tttgaattgt 113280
aaggaccttc agatagtcct aatgccagatt gttatcaatt atgctgtaca gaattataga 113340
gttacaact tatttgtaaa atattcattg tgaactact atgtgcctag tattggccag 113400
gagatgctc cacgtctgct agaaaggaga atgaggaaca atacaacaaa tctgttttct 113460
catcctaatt tcttttagtta tgccactcat tgctctgtc atgtcaacat tgtagttaag 113520
acttattttg aaaaggacac tatataatgaa aggacactaa atcatgctgc tattaatacaa 113580
catgcaaact tatgtttatt gcatcattat tcacaatagc aaagacctgg tacaagccca 113640
aatgtctaac aatgatagac tggattaaga aaagtggca catataacc attaaatact 113700
atacaacctt aaaaatgat gagtttcatgt tcttttgtaga gacatgatgtg aaattgtaaa 113760
tcatcattct aagtaaacta tcgcaaggac aaaaaatcaa atactgcatg ttcttactca 113820
tagttgtgaa cttaaacata agaacacatg tacccaggaa gtggacaaca acacactggg 113880
gcttgttgtg tttttttttt tgttgtgag tataagcact aggagatata cctaatgcta 113940
aatgatgagt tattgtttgtg agcactatc catgcacat gtatacatat gtaactaaca 114000
tgcacattgt acaaatgtac tctatatttt aaagtataat aataataaaa taaagaaaa 114060
taaaataaga aaaagacaca atataacttg aattgctctt agaaagcaat gttctattct 114120
aaaactccca tttgatagat gatgaagcca aaaaagataa agtaatttgc ccaaagtcca 114180
```

```
gcaatgttg ctagctagtt gccactttac cccagtacct cctacagccc tgggctacag 114240
tttccacatc tctacgatgg aggaagggga acagactctc tctagcagtc tttttcaagg 114300
ccaaagtgtt ttcatttttt gaattttcttg aacatccact gtttggccag tattgtcctt 114360
agctacataa tagtcacaac ccttaaattc tttttcttct gtccctcgtg ccctttgtct 114420
ttaggctggt aaactgtcat agatatttat ctgaactttg tttaatcatc ctaagtttat 114480
accatgggtc ccaggaaac taggaagatg aacajtatat aacaattaca attuatttgt 114540
cagttagaat tacatatatc tcctaatgct atcctcccc tgtctctccc cccaaaaca 114600
gtccccagag tgtcatgttc ccttcttgt gtcccatgcgt tctcattgtt caattccccac 114660
ctatgagtga gacatccat tgtttgtttt tttgtctttj tgatagttta ctcagaatga 114720
tccttttccaa tttcatccat gtccctacaa aggaratgaa ctcaccattc tttaagactg 114780
catagtattc catgtctatat atgtgctaca ttttcttaat ccagtctatc attcttcgaac 114840
atttggggttg gtttccaagtc tttgttattg tgaatagtgc cacaataaac atatctgttg 114900
catgtgtctt tatagcagca tgatttatag ccctttggct atataccccag taatcggaatg 114960
gctgggtcaa atggtatttc tagttctagata tcectgagga atggccarat gtgccttaaa 115020
acttaaagta taataataat taaaaaaaaa cacttaccag tatttattga gtgcctcaagg 115080
tagtaaaggc ttgagaacct ggagcctatt ttcataccga atatgtaaat atggcatct 115140
ctgttctaga agatcttagga cactctggaa aagtgtctgt atatctttata ttaggattag 115200
tcccctcacc aatgtgcat catggttagt aaaggacaag ctgagtgaac aagaagcaac 115260
tgatcatgtc tttggccatt cccaccgtct agctacgttc ttggccatcg gacctgattc 115320
gtccagcctc aacttttatc tgtgtgacag gtccaataat tccccataac acagagtatgt 115380
tgtttatgatt aaatgctaag cagaaatttt agtacaggat tggatatata gtaagttctc 115440
cataaatggt aatactatta ctatacatat acatgtattt taccataccra tatatatttta 115500
cctacatttta tgtacctagtt tataatctcc aatatgtcctt ggaagcttca gaatgtagtcct 115560
tattctcattt ttgtaatjtt agtatcatac acagcaataa cagaaacaag ttctaaaatt 115620
tctcctctgga gttttactttc aggagtttgc taccaattag aggtgtgtgg ggaagaggaa 115680
gacattggag aaagagtatt tccatctgtttt tagtctctat atacaaataa agttgggtgac 115740
ccctaacttt gccaagctct tgcctcagaa tgaaacaaca cccagtgcct gtaacttcct 115800
aatcaaacac gtcagtcacc ttcaaggggtt acaaaatcat agttcatgga tgaaatatgt 115860
gtcgccaaa cacgaatccta attgttaaa aaaaacagtt gctaacttt caaaatacaa 115920
gaattcatt tgaaaatcca ggttctgtc ttctcacta cttttaactt tcttaatctg 115980
aactacatac tcaaggaaaa actatatagc acactgtttt atcacaaagg taacactcag 116040
cccaagtccaag aattgtagtc ttgtctgtcc ccagggatgc tcttgtgccc atcctcagt 116100
ctatacactg tctctcccaaa cagaacctct atcgggatcc atcataaaat ccttctttct 116160
ctttagaact ttccccacctta agcatgcatt tttaactgt agagtttaat ttctttctca 116220
ttttggaatt caggaatatac tcctgccctc acggtaggaa aaatctttctt aaacaaaata 116280
taaaaccatc cataaggaag aaactgataa attgaactgt attaaagtta acagtttttg 116340
tcctctataaag cagaatatac cattaagaga gtgaaaatgc aagctacaga aaggacaact 116400
cacatttaga atacttaaa tcagtttaaa aagagacagc acaaccacgt agaaaaacag 116460
gcaaaaggtg gccacacaca gtggtcatga atttgagacc agcctcacca acaccgcaaa 116520
acccccgtctc tactaaatat acaaaaacta gccagtcctg gtgctgcaca cctgtcatcc 116580
cagctactag gtagctcgag acaggagaat cgtttgagcc caggatgtgg aggttgcagt 116640
gagccaagat tgcacactatg cactccagcc tgggtgacag agtgagactc tgtctcaaaa 116700
aaaaaaaaaa gagatgaact attaacactt aaaaaagcac atcaacattt caataagcat 116760
ctagcatgta tttacgttg tatctgttta cgtttctctta atatacacct catacggattc 116820
atctccatga ttctataatag gtctactttta ctattctca ttcctgtata ggattctctt 116880
gtatgagtat gccaaaattt attcatccat aattctactc ttgatggaca tttggggtgt 116940
ttacacttttt gaatcctaag tctataaata tttttgtata tgtgtctgtgg tacacactttg 117000
cacatatttt ttgttagata taaacctgg agtgttatgt gaatgttcag ctttaattga 117060
tactgccaaa tagttttca aagtagctgt accaattac attcccacca tcaatatgtg 117120
acaattccca ttgtctccaa ttctctttaa cactttgtat tataagtcat cttcattcta 117180
gccctcctgg tgtgtgttgta gtgataagtc attgtgattt tacttttgtat tttcttgat 117240
tatttgtcag ttctaacttc atttcatgtg cttattcaaa tgctgatatg ctttctttag 117300
tgataagagt taatacettt tttaaaaatt gattttaggt atcctaaatg tgagcctcca 117360
ttcaaatgtg tatgtcgcaa atatcttctt ccttccata gctggcattt tcactctctt 117420
aatggtattt cttgtctgtg aggacagaaa ctgttaactt gaatgcagtc caattttca 117480
ttttctcct tatgatggt tttatatttt gttaggcaaa actttcctta cctcagatc 117540
aggaatatat tcttctatat taactttggg tggcttatg tttttcccact taaattaatg 117600
```

```
atccatctgg tactgatttt tatttagggt atagtatagg ggtctagaat caattttttct 1176..
acatagatat ccagttgtca gcatcattta ttgaaaagat cacctttttct ccactaaact 1177..
tcagtggat cttggtcata aatcaagtga ccaagtatgt ctggtctgc ttctggtttt 1177..
tcttttctat cccactggtt tgtttatttc tcaagtactt agattaaac tgagcctttg 1177..
tatctggaac aggaagcttt tccccttttt caaaattgtt ttggctatta ttagaccttt 117...
acatttacat acaaatttta gaaccagcat gtcacattcc aaatacaact tacacaatt 1177..
ctaattcaaa tataatttaa ttacaatcag tttggagag ttgatatctt tacaatattg 1181..
agtcttcaaa tcccagagca tagtatattg cttcaattat taagacttc ttttatttt 1181..
ttcagtaata ttttgtagtt ttcagtacag atctttgtt agatttattt tgtaggtatt 1181..
caatgttatt tgatattata aaaagtgttc ttaaaatatt atgtcataat tgttaggagc 118...
tggtaaatgg aaatacaaat gattaatttt atattgattt tatgtctcgt gaccttgcta 118...
aattcatttt tttctacagt tttttcttct gtgaatacag tcatgtcatt tatgggtaat 1183..
gagagtatta tttttttcctt gccaacttga ccataatatc tccttattca gtttgttagt 1183..
actttaagat gttttcatc ctgattatga aataataaag tatgtgtaat tttctttcct 1184..
tacaatacc ttgttcaatt tggtattcag gttatgctga cctcaggagg aaaataaggc 1185..
agtgctact cttccattc tttaaaagaa tgatataaac atatcacaaa agatatatat 1185..
atatatatat atatatat aatcacagtt tctttatcca ctcgttgatt gatgcgcatt 1186..
tgcattggtt tcacattttt gcaattgtaa atgtcgcgc tataacatgc atgtcaaagt 1186..
atcttttca tataatgact tgtttttcctc tgggtagatt tataatctca cctttatac 118...
tattgacatt ggtggattt ttgcttggtt gctctcatat tttctctcaa attattgagg 1184..
ggttggtttt gactttgttt atcttgttta thgtacatt atttcattaa cttctaact 118...
ttatttactt cttctttct atgtttaatt tgcaggcctt tttcctgact tcttaaaatg 1189..
gatgcttgt tcattgattt ttttcatatc tttttctttt ttctaatata tgcattgta 118...
aagccttca ttttctctcta aagatagact taaccacatc actattttct tggcttgttt 11...40
cagatttact aaattttaaa tttttttgac ttttttactcc tgtattaatt tgaatattag 11...10
gcaccctta actgttcttc tagtgcttac actgatgatt gcaacattca ttcttggcat 11...60
atcaaatatt attgtaattg ccacttacac ccttttccca gatggtacaa agaccttgaa 11...20
tacttagttt tatttatta actgctaatg tacatgttat tattgttgca taattttttat 11...80
attttacag tcgacaatat ggtattattg ttgttgctgc tcttttattc agtcaggatt 11...40
atttatatt accatatat ttataatttt tattacttt tattctatt gttatctcaa 11...00
agttttcatc tcgaataatt ttccttcttt gtgaataata tcattctgta tttcattag 11...60
tgtgggtctg ttgttgaaa ttttttttct tttttcttgc atcacaatgt cttttatttta 11...00
cattctctat ggaaaaaagt ttttgttgga tatgtagtct acatcacagt tattctctgt 11...40
cagcacttta aagatgtaat ttagttgatt cttgttgaag gtcagctgtc tgttttattg 1140...
ttgatctttt gacagtaatc tgtctgcctt tgccccactt ccaggtacag agttactgtc 1107..
tttggttttc agcaattttg caatattctg gttagttgcg attcttattt ttaatttaac 11.0...
atcatttggg tacattggac tttctcaaatt tgtgtcttga tgtcttttgt caggttttgga 1140...
gagcttttgg caattaattc ttcagacatc atttatgtgt ccttctttt tcactttatg 11...50
aaatttcatt tacaatgatg ttaaggtgtt tcactgtaac ccacattctt ttccatattt 11..40
tctatcattt tctctttata tgtttcaatc ctgttatatt cttctgatct atcttgatgt 12.000
ttgctaattc tcttttggc tgcactaat ctgccattgt tcctgtctat tgaattttag 12..60
atgccaatca ttatactgtt caatttttgga aaatttttcg tggttctttc acatggtttt 1200..
cagtgctctg ataaaattat caatccttca ttcaatctcc tggcagatag taagcacagt 1201..
tgattatgaa atttatgtct gtaatgtctg attactctat tatcttgagc cctgtgggt 1202..
ctatccat tttctctgct tttctgttca ttttaattta tgtctgtctta tcttcctgta 12...00
taacaactttt tctttactgc gttctgaca ttgaatttgc aaaatttctt tgcagacata 120...
attttaggcc taagctgatg ttatctttt cctagtaga tatatgtttg cttgctgcac 12..40
tagtatccca tratcaggtc aatccaattt caggggattga gatgatttga agctacactg 120...0
caacccttac tagtacctgt ctattccag ttcagccta ctcctattgt caagccttc 12...10
tgcgtccag cctaaaagttg agttttatata gcttcctcca ctgcaatcac catatttttgg 1...00
tcctagactc caaatttcat cttttctattt ctggctaagct cttaaatgag ctcctctta 120...
gttgtttagt tgcttactct agaattagta aatatcccca aggtgcagc agtgtcaaac 120...
acaaggttta cctccggg ttcctcatc cctagatccc agccctgcta tccttgctc 1...40
ttttgttagc tctcctacat cttcaagtag atttgtaaat attttgccca gcttttcttg 1...40
ttgtctcat tgggagtatt cgtccaaatt acatgtcaca ataggctgaa acaaggcagt 1...00
cctgttcctg atcttgaaaa aaatgataga tatgtcaca ataggctgaa acaaggcagt 1...20
gattttctcc ttcatatgag ggaatacattc tcccacaatg tccagctagc ctccttctca 12....0
```

99

```
ttcaccttag cccagtgact ttggcatttg ggattcagac tcttttcctt tttttttttt 121730
tttttttttt tgaratagag tctgctctg tcaccaggc tggagtgcag tggarcaatc 121140
ttgcctcact gcagcctcca ccttecgggt tcagttatt ctcctgcctc agcctcccga 121200
gtagctggga ttacatgtcc caccaccaca cccacctaat ttttgtattt ttagtagaga 121260
cgagttttca ccatattagc caggatgttc tcgatcctct gacccttgtga tctgccggcc 121320
tcggcctccc aaaatgctgg gattacaggc atgagctacc gagcccaccc cagartcttt 121380
tctraratat tccaataagg tacaattta tcaactagg tttctttcct ctaatctgtt 121440
catgatatgt ttgcaratatg gagcttaatt attttattat tttgctagag aagatctctt 121500
aaagccccta tggtgttggg atcattctac tgtcatgatg cctggaagat ctcaaatatt 121560
tagtggggctc agactcctc tatgagcaca gattgcaga ctgctttca ctgcagacc 121620
tttcaatgga aaartggatt tctatccta gttatgtgtg gagaccaaga cagtgttgaa 121680
tggagactaa aaataggg actacaaac agatagtgtg tatctccgag gggagtgtgaa 121740
gtccacttc caaatcaact gccacgataa ggagtgttaa tgcctctgg gatccaagta 121800
ggatgaaaac aaanacagga aaatagtta ggatctttcaa ctctccttt cagttatcag 121860
gaaatctaca tgctcatag actgagattatt cagaatagac cttgttgaaa gttactggaa 121920
tggaggaaaa cctacaaag attttccagat tcctgggga agacaaagt attggatttt 121980
tgttgttate gttgttttg tttaaagtga actcctgtcc tttgctctaa ttcaaggaag 122040
aatttctgag tatagctact ctatgcaaaa tactttctac ctttaggact tccctaatt 122100
gtggtcgaga gtgtagtctc caaagtcaag atgcctagat ttcaatctt attctactat 122160
ttattagcat tgtaacettg ggcaagttat ctaattctc tatgttcaaa ttttcccatt 122220
tataaaatgg aagtaaaagt gctactttat cttcaagtgt tttgtgagg attttaaaaa 122280
gtcatgcata taaagtatct agaacagtgt ctgccacatg gaaaagtca aataaaaata 122340
gctatttata attaattttg tttttagtatt ataattgtat agtaatgctc aacccgttta 122400
tcgtgtgtct ctaaagccc tggattctt atctcagtc tgcactctt catttaaagt 122460
tctgaacagg ctttcttcaa cctgatggat ggttcaaaca gctctgtccaa cttcttagt 122520
tggatatagg gattccaaa tcttgctgct catttcagaa agcttttttga aaatatagac 122580
tcctaggatt tgcccacaga gattctgactt tagtagattt ggagtgaggc ctaggaagct 122640
atatttaaa aagtctgccca ctacgtataa tatgcaacca atttggaatg actgaactat 122700
gatgacctgg tacaattat taaatatatg gagccaatta ttaaatattc ataaattttg 122760
caaactgatt gttaaccat tagtagttat tagttatgtt aggaatattt atacaataga 122820
aactggcaaa tcttatattc tttttttct gtaaactgg tttactgtcc cactactggc 122880
acaatctttt tacccctag catctgact atctctgtct gaatctctt tgtttagaac 122940
tttacatctc catgattttc tgttctctaa ttgaagtttt gatctgccag gctgtagata 123000
ttcctgtgac taaagggct tccagatata tatctctgca gccataaca agtctctcat 123060
cattgctttg ttttgagggca cagctggaaa actagtgtc agtggtgatt ctggttcaca 123120
gatgcataat tttttgctct cacaaggact taaaattaaa gtggaggca gctttttaaa 123180
aaattataag atggcatata aaaatccaga ttctcatctt ctctttcaaa aaacaaacaa 123240
acaaacaaaa actaagttga aagtagatct ggactgtct ttcagtggac aaagttcagc 123300
caaagctacg ttagcactgg cagtggaaag gtgttctctc acggctcat ttgttcattt 123360
atgtttttcg cctggccttg agcttgcagc tctctgggga agcagtgtgt tctttttgaaa 123420
aagtgtgcag attggtgtctt tggagtgta ggttgcaaat catgactctg tttttaatt 123480
tatcgtgtga ccttgctcaa gtcattctcc ctaacagagc ctcagtttct cacctgcaaa 123540
ctagcgagaa tccttgcttt gtctgcctct ccaaatgttga gatgggaaa tgtgactcct 123600
tgaccaccag ctatacaaaa gtaaggaaat antactaaat attgattcct atttcctgcc 123660
attgcagct aggtcggaat gaataatccc agaacagctt ctgatagagag aaaatatttg 123720
aatagatagg atcgctgaga aggcataatg atgcagtgcc tataatgagg aagtgcaca 123780
aaacagaaat actactgaat atgccgaatc tacagtcttc ttaagtgaaa tttgcgaaaa 123840
tgataattg aagttgaatac tattaaccaa cctcatgtca catataagaa aaatatgcct 123900
tggaastcaa atctccacat aaattccaga aggttatcccc tttgtgcaag tcaacttatc 123960
tgagcctctg tttcctcatg tatacaagt nggtattaga atctatcttg catgtcattg 124020
tgaagartca gtggtataat gcatatttaag tgcctgagat attttgtgaa natccaataa 124080
atggcaantg ctgttatcag ctaaaatcag acatatgaaa attgaactac tcgcaaatag 124140
ngaagtagtt atgtggataa gatgtattgt tactggatat ttccttatca gaaaagaact 124200
ttgtatratc cctcaaggac ttcttctact tctcattcca ctgaagatct ttaattaagt 124260
attttatcca ctatttgctg caagcttggt aggatacca gccacacata ntcatataag 124320
naggcaagttc tragagcagg cggcagtatt agcattataa agtgtttcca nagttggacc 124380
agtgtgtgct tctccttcat aaaatccttaa atcttaggct cactcagctg gaaaaaaaaa 124440
```

100

```
aaaggaaatct gggttttgaag aacacttatt tatttttgat tttctctgcc ttgtgtgctt 124...
cttttgactg cgcatctgta tatcaaggca agaagtgctc aagttcctct gggttctgga 124...
aggatggaaa caattggttt tcttggattc ggtctttttt ggactaaagc tccttttat 124...
tttttctccc cccaataaaaa tttctgtttc aggagtact ttctcattca ctccttttctt 124...
aatgtaattc tgtttgattt ccactgaaac gctcctgaaa ggagacactg aacgatgct 124...
ccaaagccat ttccattctt caacacaaac tttcaggcag gagcagttcc agacgcattt 124...
ttatatcccag taatcatgca tttaacaaaa atgattgata cagcatttt tcccctctct 124...
atccatttcta gtccattagt cttattgttt ttccatgttt tggtttcctg ccaaaacagt 1243...
gaatataaaa atagttgcat aaatcatgca catcacaca cacatacatg taatagggtac 124...
tgggtctgta tctgagttga atattccaaa ttttatttcc aggcttctt tcttcactga 1250...
agttttagcc gcttctttcc tttttttta cttcctctc tccttttt ttttcctat 125100
cttctctctcc tttataggct attaagttgg tgcaaaagta attgtgattt tgcgattact 125160
tttaatgaaa aaccacaatg gcttttgcac caagctaaca cttttccgag aaaaagccac 1252...
ttttttttt ttgtcagcca tcatagaatc tgatattctt cagggttaaa gggttcttgag 125280
agaggcattt acataatccg ttcacttcag tttccagaaaa tcaacaggcc agaaaggaaa 125340
ccatgtgcta tccattcctt tcttctgccc ttaggcaaac attccagtgc cacgtccacc 125400
atccagccttt gcaagctctg gaccctgccc gctgcatcag ccactctctc acctcagtct 125460
tcactctcac ctctccattt caatttcac gctgtagcaa cacatgcctt tagtccttgc 1255...
cttgaggctt tcacacctgc ttctctcgtt gctcggatag tttttcaatac atagctgcac 1255...
acacctttct cactgcttca cctgctattt attctttaag tcttagctca aatagacattt 12554...
cttagatcac acaccatacc accctttcct gacttttcac ccttctctctt ctcacacatta 125760
ttatgatttg taatttttgta ttaacttggg tatttagttg tttaatgtat cttcacttat 125760
tagtagacaa gccctataag gacaaagaca atgtttttccc cgccccttcaa ttgcttctc 1258...
agttccatag acagtgcctt gtgtttgata gtgacaatag ttaccaatca taaagtgaca 125880
gtatctaaca tctgttaaaa acttgctagt tccaggcaca gtttcttatg attttttatat 12594...
gtatttactc attttaatat tacaacaatt atccgtaaa gtagtgctga ttattatccc 126000
cgttttgtaa ataaggaaaa ttagtcaagtc acttacccaa gcttatatgg ctggaaagtg 126060
gcagagtttttg tttgtaaccc aggcattaac tccaaaacct gaaccccaaa ccaggccatg 1261...
ctactctcgt taagcacttc attaatattc attgagaaaa taattgaaaa atatactta 126180
atccaattagt agcaaaagta aaaactaaaa ttgtttgatt gataagcat ttctcttct 1262...
attcaaatag agagctctct aagtacacac agagtaagc agaagaaag aggaagattaa 126300
cccaattcatt tattgctgat aagacctatg agagagctcgc tgtgtatatag atcatgaagt 126360
gaaatgtaaa ttattatttt aagattcaggc aagacccagt ggtaggtgtggu aaaaatacag 12640...
agtcaattga agaggtccctta agataaagaa tcaaatttc cagcctctatc aagtggttc 126480
acagttcttta tcattaacaa tctaggcaat tcttatgcta tggataaaat tttccaaatg 126540
tgattttaaa gtatgagtaa tcatcagttt tatgaaaatg ctgctcagaa ttctaggata 1266...
aaaactccaa taatgagctt tgttcagttg ttccatgcta tgtggaaacag ttcctagcac 1.6660
atataagcac tcaacaaaca tttatttagt aattaatggg aaatgaaaat caacaaatcc 126720
atcagcaaat acttactaag tactcgttat taagtctata cagatcaagg cacaacaagg 1.6780
cacaaaagta aaatgtcaga ttttctttca tggagagttc ataatccagg tagaaccaga 126840
aataacacc acaatgaata aaagtcttta gctgggcatg gtggcacatg cctgtaaccc 1.6900
cagcacattg ggagtctgag atgaaagcac cgcttgaaac cagagtatg agaccatact 126960
agtcaacata gtaaggcct ccctctacaa aaattttta aaaattacct gagccatggtg 127020
ccctgttcct gtaattccag cttccaggga gactcaggca gtagatgac ttgagcccag 127080
gcagtcgagg ctgcaatgtg ctatgattac acctctatat accagtgg gaacaaagc 127140
aagacctgc ctattaaaaa ttgttgtta aataaaaat aaagtgaac gccacatca 127200
ctggggagtt gcttgtcca aggcttgc catgtcctc tgcatatatt aagtcatctt 1.7.00
tataatcgta aaacttta tatgatgta ccttcctca ttccatctc tagatattga 1.7.60
aactgaagtt taaagatgc aattcttgtc caaagcaca agaaacaaga acttagtgca 12.360
gccagaattg gaactcaggt tgttttagt ctggaacaa tgatgcaaaa tgtcttcatc 1274.40
aatttattt gaaagcaata ccctgttggtg aggcattcta gaactatag acttttcagt 12.500
atcagaggat gggggttggct acagaaggat aaatgaaagc aacattaccc agtttctcca 12.560
ggtcttcata tccgcttac ctggtatga aacaatccat ctctcactg ccaaagtcct 12.620
gtcattaagg tccagaatc agtatactt ctgcatatgc tgcttacttg ggtatgaaat 127670
actccatcc tcaactgcca caactctatc gttcaagtcc cagattcagt gtcacttctt 12.740
cctggtaggc tttttaaaaca tggtacaaatt tgatgcttc ttccttaatg ctccttttat 1.7.800
aatccggtgt gtttcctgat tataattctt atctcggcatt ctgattactt gtttccatt 1.7.860
```

```
aacttgtctt tgagttcctc taggacaggg gtgaccaatc tttttgcttc cctgagccac 1. ??00
tttttgaagaa gaattgtttt gggccacaaa taaaatacac caacatcaat gatgagctaa 1.7??0
aaaaaaaaat tcgcaaaaaa aaaatcctcat aatgtttttaa gaaacttttac acatttgtgt 1.????
tggcacatat tcaaagccat cctggtgctgc atgtggttca caggcacag gttggacaag 1 <???
cttgctttag gatacaattt tattctccca gggctagca cagccctag catatagtaa 1.????
gtctttaat aaataactgt ggaacgaatg aattttagat agaattgtc atcagatggc 1.????
tcactaata tacagacaa ttcaagaga ggattgttt cttgagcatc agggaaaagg 1??.?0
gactttgaa aagttaagtt ggaggcata tggtatta gatatctgtc tccacatgcc 1.????
tcactaact gtgtgagcct tggaaagtta tttctcttc acttcattat tttcatcatt 1.?????
ataattaaaa tgataaaaa tgtgttgttt ggaagttgaa ataattaac atgcaggaac 1.?????
tcaggatagt gtctgttcat tgtaaatact caaatgttgg ccatggttat agctgctgt 1.?????
gcttgtttc tctgaattat tattatggaa atttgggtta gtaaagcatt tcaggcaaca 1.?????
ggttacttt gagtaaaagt acagaactat gaagagatct cctaccttg gatataaaaa 1.?????
caattcacag cattgccaag aaagactgta gatattcagg gatgagagtg agattcctat 1.????0
gagccagaga atcaaaagct ctgtaaatta gtgagttcgt gatatcatgc tacgctcctg 1.????0
ttttaagag ctagatatca aaataaatgg tccattgtat gtgcctgatg gctatgtttt 1.????0
ttccactgta cacagaagta agattctgca tgttgaatat cattttgttt tcaggaatta 1.????0
gataaatcag cctttgttc cctgaaat gttggctact gtctttaat tcttttttgg 1.????0
gagaatttct atgtcatcag ccatcttgtt tattctgaaa catggacaa agtttggctc 1.????0
tttttctacc tatgtagtcc tttgctaggg ttgtacagtg tttagtatac tggaaaagt 1.????0
gattttggatc cttgttgactg ggattagga gaattgtatg atgagtatac agaatctttt 1.????0
gattgatctc cttgcctctg acttgttt agcctcctac tttcagtgga taaggccta 1.????0
gataacaaac caactgaagc atacttatg atagccaca cctctaatct catatttatt 1.????0
atgaccaact aaaaactgt tatccttctc tttatgtcta ttattaact ttccctcct 1.????0
ctttacttc tttcccttaa gtccttctga tacactacat gctcctgca ttgtgactat 1.????0
gagtctaaaa agctggtggc attaccacc ttccctcca ccttcaaaac tcacatgtac 1.????0
acaatctttt gggttctct gattggctc actattctt caacttagaa cgcccacttt 1.????0
ctattatgat cattaaaaga tcctggattt atgtgtgtgg tgatgtagt aacaactggg 1.????0
aaataacata aaattatttg gtttcttgta tgctggtttt cttcccaggg gtaacctgtt 1.????0
tgtttgacg tttggttaa tgtttgttaat ttgacgaagg tgaaaattaa taggctagaa 1.????0
attttgtgg gaatagggta aggcttgaat ggtctaatct acggattcaa actttctagt 1.????0
taagaatgta caacctgtga agatatttg catttttattc tacatatatc ccaatttaac 1.????0
caatttcag acttttaaatc accataaat tttggaaaac ttctactgtc taaatacaga 1.????0
attaagtttt ctaggcaga tgaaaaaaat tctcatcatc ttgcacccg caggcaaatg 1.????0
catgttgact ggaaagctat ataaatgtgt gttgatgtat ttaacaggtc tggctattga 1.????0
acttgttaaa aatggatgtc aggaaagaaa aacagcaggt cggtgtagac tggaggagtg 130????
cggcatgcct gttgacacaa agaggagtga cagctacaca gtaggggaag cccaatggag 120????
acttcaggct caccacgtat ggagcagtct gggggacctaa acaaagaaat gaaaacaaac 130????
agaccacct accacctcaa gaatccctaa gggagttata atatctacaa atgctcatga 130????
ttattaacta ggaaccagtt attctctatcc tgctatgagc caagattcat tccaggaaat 130????
taaaaagaat acaaagaagt ataaaataca atgcctaggt ctgcaagtat ttattacctg 130????
tgacaactact atgttggcca aggagaagtt ctgtatatta tgctcttttt ataaaagcag 130????
aagcatgtat acaaactatt aggatatttt ttttcaaaat gtttaaaatt ctttagctgc 120????
ttacagagag aatttatttta gtactacttt ctcaaatatc ccatttctg acaatgctaa 130????
caattgaggc attttaagat aatacctca taaaattcat acaattct gtctgtgtag 130????
acttagatag tacaatcatg acctcattta ggtcagtgac agttcttagc ttgataggc 130????
aatggtaaga aatgaagttt ggcttaaaca gttttttct cttctctgtt gactcattta 1????0
atgaaagaaa gtcttttcatt caacctacat atttttttca aagattccac aatgatgggg 13????
ccatttctcc tatgagttat tatcaaaat gacacctgag tctgagtta cattaggaag 130????
cagccaaactt artctgtat ttaattcatt tggaacattt ggatatttta tttattaag 1????0
caagtcattt ctggtggaga agtcggaaga tcttactcat tttagaaga ctagtttaga 1????0
gaatttttctc tggggaaga gtttttctgt aaggaactt caagaaagg agcagatggc 1????0
ttctgtgtct actgatgagca agaggataa ttaaggcagtg aaatagccca tggtactgga 131010
gagaaagaca aatgctgtcc cacataatgg aaggctgtaa gtagtgtgag ccaaatggaa 1.????0
ggttataaa gtgagcaagc aatgaggact agcatttat ttaaaatgga aaaggacaa 1????0
tgtatcttta tccactttta tccactgtc caacctaatt attttaaaaa aagagagag 1????0
agagagagaa gatgaagaaa ttaagagtgg gaaaatacta ctacaccgt ttggccttta 1????0
```

102

```
tggcctctta aaatctgagg caggtccagg aaaacatggc aagaacacta aacttaagga 1314?
gtcaagaaat ggatgctcaa gtgttgttgc tgtctctgac tcagccttac tgtctgacct 1311??
tgaggacaat atttccccaa actccaccac aaagactta ccgcttcct gtagatatat 13144?
ataaggaagt tagaacaggt cttctacagtt crttccattc ctgacattct aggcttttcat 1314?5
aatgtggctaa aacaagaagc ttcttttctta at it itgaca cacatgaaa tgtctactaa 1315?0
gaaatgacct atgaattctg attgaagttgt aattggatgc aaatacaaaa tgcaagatta 13145?
gagtgaaaag cattaccct ctgtgaggtca guaattataa tgtggtttct ttctactatg 1315?0
aatgatgaat attgtgcatg ccaaattgg ctttgaaaa catagaagga actgaatct 13175?0
cttttagaat ggcttttctt ccttttgtga tagatttttt ttttttttttc tatttttgca 1316?0
cccatactta gagggatac aaacatctct gtaattctac ttaagacaat gctacgagna 1318?0
cttaaaggaa cacaaatca tttgagttga cagcaatga caccatctgt aggcttatct 1319??
gatgcagaga acttgagttg gagcctatag cctctggtca gttagatgcg gtgggggaaat 1320??0
ctcaagaaca cttgtgctga gagaaagaaa acttttatctg cttgttacac atgagcctga 1320?0
gctgaggaaa tagacctgga tccagggaat tggtgtttac tgggtgccac aacttgtgtt 1321?0
agcacttgac atgatttctt ctatttaaat attagactaa aaaacacttcta tcagactagg 1321?0
gtttttaaat actatttcat tttttgtta cttatttata aaatgttggaa actgagttctt 1322?0
ggggtgtatt aaggttttat acactgtaaa tggtataatc caaggttgaa aggttttcctg 1323?0
acttaatgc tgtttttctt tcacaatac ttattgctt ctgtaagttg tattcctac 13231?0
cctagttctg cttttattg gctgtgtaa ttaaaacaaa tcattaagt tcttgaatct 13242?0
catttgttc ttctgttaaa tatcacaaaa ccaaccaac aaccaaaaaa gtgagaatat 1324?0
agtttttta tgtttccatg attgtggtaat gttcttcaca ggcaacaatt aattcatgag 1325?0
gaatgatgcc cactgtgtc atgcaaaata gtgccctg atttttaagga atgcatttat 1325?0
taatacatgc aacctgaat cacatatgta aattgtatta tatacttgta tatctatatt 1326?0
gtttttagaga agaggctaaa gctttccttga gaggctttct gtggcatcta tatccccaaa 1327?0
ttcctaaaaa tcattaggtt cttggcagct cataagtga ttagtaggtc tcctatgat 1327?0
gtgtttataac tcaaaacatc agtaaccatc tgaaagaaat taaggtttag gataaggratg 1328?0
gtgtttacac cctgtaatcc cagcatttgg gaggtaaag atggcagtat cgcttgaggc 1329?0
caagagttta agaacacct gagcaacaca gtgagaccct atctttacaa aaaatttaaa 1329?0
attgtattta aaagaaatta aagtttagta catgaaagca gctgaaactc agaactgacc 1330?0
ttacatcag aaaccatgtg gtatcatgga aaggaaatctg gtaaagaatc aaagattctg 1330?0
ggtcctactt tactctgtgtg tgaaccaact caaggaatat gggcacatac ttagtgccc 1331?0
attgttttgt cattaaaaa gacaatctaa gttccagcct gctctgtca aagcaacttt 1332?0
taaaaaaatc aatgtgtata acatgcaatga aggcacttttg gtaaaaatag aagtacctg 1332?0
caaaagtctg atattaatca ttgagatatta aataataaag tccttttact atttgtcac 1332?0
tgtagaaaag ggaaaattgc aagttccatc agcaaaattt agaagccttg ctttttcatt 1333?0
cccttagcaa gttcctaaag ctgatattta agcataaatt ttcttggctt taatgagaat 13341?
tggttgaaaa tacaccttac aggattaaaa tggagatcat caccatccta ggagctgcta 1335?0
aacagaacat gtggtttctt ctctatcaa gagttctact ctttttatcac ctttatttta 1335?0
tgatcagtgt ttctcaagga atggtcaagc acagcatcg tgagcatctt ctgggaatat 1336?0
gttagaaatg aaaattctcg agcccatcc cagacttact aaatcagaaa tcctggaggt 1336?0
ggagcagagc aggtgtgtt ttaaaaaacc cttaagagga ttctgatgcc ctgcacactt 13371?
aagtgtgaga acaactgcca taagcagagta tccttggaga gacctacttt ggtcctgggt 1338?0
acttaaagca aaatgtgggg cctccagtaa tccaaaagag tacctcatct aagtctctga 1338?0
aaggcttatg ttagagcaaa ggttgttgta gtgaatgtca atgttacaaa acatggtggg 1339?0
ttttacacaa aacataatca aatagcctct ttaggttaaa gtcctgatgt taggtttgct 1339?0
ggttaggaag aaatacaaat gtatctcaag gaatgcagtt cctctaagat tcaaaaagta 13404?
tagatacttt tgctaatcct ggcaggttga aacaaatagc aatgaaagt caaaccacgc 1341?0
ctattgtgaaa gttaggcca tagcatgtt tttctctga aattggaatt tatggaacat 1341?0
gataacaaat aggaaaatag atacttttta ttgaatatca aatcactacc actattttaa 1341?0
gtgttttgta tgtattaatg gctaacctt ttcaggtag ttactcacc aagctttg 1341?0
ctgggcctg taaatgacgtg agtaaacaag aaaaaatct gcttcctcaa ggaactaca 1342?0
cttcaatgaa ttgaaattag aagaaattac cctattactg ttcaattca ggctttttgc 1343?0
aaaggcctag atgggggac tacattcagt cctattgtaaa tagaggtttc tcaaagaaag 1344?0
aaatgtataa attagagca ctgtagattg aaggagttg atcacttag agtggagaaa 1?4???
cagatttagg ataactatac tctttactac aaagaagcta aatgaaagtg ttgggatttg 1?4??0
aactcaggtt ggtttcatcc aaaatcattg cttcaaacca ttaagnaag ggcagaaaat 1?4??0
gtgtttttatc aagcctgtca attttgacau attaataatg gcttccaaga atgtggatgg 1?4??0
```

```
tgaatactcg gtgagcactg ggctraattc gaaaaaaaaa tgccatgatt aattaataat 134?60
gtcttcctg agttragaga ggagtttgta tgtgtcatgc atttgcctac cctgcagtac 134520
agagtacttg tccaggaact cattctcgaga ggatgaaatc tgcggtggtt tcttttcat 134580
gtaagagtat ctatgatcca aatttttaatc agagctcaat ggcaatagca ggggcttttt 134440
atatgttatgc aaggtatgca agttatcatgc caggatggat cattcagtaa aatatataat 135300
aaagtttaat gtcaaaatctg aabatactaa ttaagtttaa cagtgaaaaa caaatatataa 135060
agcaatttat cttactaaga gactaaaatt caaaattggt aagccaattt cattttcatc 135120
ttttactttt gttgtttcta tcaaaatgga cggcgttaat atgacagata attttttttag 135180
aaataactag atctatatgt attatgtcag cttcatcacg cccagctggaa acttttatttt 135240
taaaatgtta cccaaaatat atgtcattcaa catgcataat ggtcatctg ttgatacttt 135300
gggaagtaat atcaatcaga aggattaaga agatgtctgt ttaaggtaat gatgatatat 135360
aattagtgtc agtttgcttc aatatgtttt atcctgtcag taagatgtgta ggtatatact 135420
ttgaattcc gttgaatatg gttgtttctg cagcacattt gttaaacca tatataatt 135460
gaaatcatac taatgacaat aatcgcttct atgactcaaa agtgaaacaa atatatatg 135540
tcaagttagt catgcttgg aaatggcttc tggatgaatt tcctttgcaa aaagtctctt 135600
tcacttctct cagctacct tcacatttaa cctaataag cactctttac tctagatatt 135660
taacatatgt ttttaaataa ctcagttatt ggttatataa aaagaagaag atgactttt 135720
caaaatttcc aattctagtg ctattttgcca tttgacaat tgtcccagg aagaatgttg 135780
tgaatgatca cttctctta accatgattc agtatagtac accaacctgc accaatttttc 135840
agaggctac cttggttga gggttgactt tagtatatg ggctcagcag tcacccgcca 135900
aggggctattgc ctctttgtca tgcttcttta tcacttata ccacttcagc catcagagag 135960
gaccagtttc tccttgatcc ttctccctg atgcatttac atgagagatg ggtttcagc 136020
tttccccttt ggagcttgtt caccttgttt tactttggta gacaagatt tacagtacca 136080
ggaatcaaaa catttctctg atcacgtcat gctgaccact gctaaattat ctctgattca 136140
ttgtacattt tacaggttat ttgaaacctc aacaggggg aaaaaaattg atagtatttt 136200
gtgtacaaga ggctcttgcc acagacggaa aaggactttta tcttactca tccttacag 136260
attagataat cacgtggaaa actgtaagaa acatcttcaa catacaagaa atatgcatct 136320
ttagtatctt ctttatgcag attcaaacat ggagcaaagtg ttctagagcc taagctttga 136380
ggactcagg ttgagtcaa tgttaaatgg aaggaggaag agaaccattt aaagttttgc 136440
atttaatgct tttaatacat tcaggactca gtaagtctc ctgtgcagag cttctgatcc 136500
attcacgtcn gcagagacat accaagtcag catagagaag atgccttggc tatataaattc 136560
attcatgtgc ccacgttctg gttagctgct gaatataagt cctagtaca tctctatttt 136620
tctttacca aattgctgc tgaagcttag ctcgttgtctg tcgtgtgtcc catcctgctc 136680
ttctctcctc agttgtgtgg tctagttaat cctc attcc agggagaaa catagctcag 136740
gaatgctagt tctgacaaga tttgatttct actcctactt ctgccattaa ccgttatgact 136800
ttggggaagg ctttttcctg gtccagagcc agcccagct attcagcatc cattaaggat 136860
aggttattct ctaagtacgc tttctagcc cagcattcaa ggacttagtg gaaattagaa 136940
ttctgggttc aagtgactc agtgccacg gcattgccg actgacttcc ttttgtcatt 136980
caagcatcat aacgggataa gcaaggttata tgtttatatc agagctctct ctgatacaac 137040
ggcactcacg ggaaggatga gactgggatg agaaaaaaaa gtgtattgat atacacagtgc 137100
agagcacact atgtgtgtatg ctggacaca agtacaaatg attatagggt ccaaaggaag 137160
cagaaatttc attttattat gaaaagtcag aataaaactt catggcattt cagatcagcc 137220
ttgaaaagaa aaatttcaaac aggtatccagt gaagtttcta tagcaacatt tactgagcaa 137380
atattatgtg caagctaatg ttctgagcac tttgcacaca gtaacttatt catttcctctc 137340
agttttttga cattagaact cttctttatct gattctgtat atgaggaaac tgaaagatag 137400
actgcctaag gaatagatt aggctcatgc cacaacaag cacaagcaca aggatttaaa 137460
gcttagcgat cttgctgcct agccatcac ttattgtgga cagtcaactc a?ct?atacat 137520
aaacaaggcc acggaactg catgcagggg cactgactc tacagatgag ctttttgtcc 137580
ctgggaaacat ctttttcagcc tctgacctta acgtttctta actctgaaat gcgaatgaaa 137640
aatagttac tgttggtt atatatcaattc agcaaatgg caggaataag aatataattt 137700
aaaagcattaa aagttctaga tcaatttaaa tactagagaa aagcagagga gcttattgag 137760
caaatctctga tgggagtaag agtgttggat atattttggg cagagtgatt atttagtatt 137820
agggttctt ctccagatgc ttgagaggtct ctgtatatgg agaatgacaa atcagtgtc 137880
tgcatctatg aagggtctagg attctgtctct tctatatgg agaatgacaa atcagtgtc 137940
tgtgtgtgtg tgtctgtgtg tttgtgtgtg tgtgtggtg tgtgtgtgtg ttatgtgatg 138000
tgttgtgctg ttgatgctga atacagcac aattcttatc acatttgag tttattggca 138060
gcatttgaaa gaaagtatag attccttagct ctcagtgcta atatagacat ttacacatta 138120
```

104

```
gttraagctg aattaactca tgtagaactg acggtaaggg acagttagag tggagtggaa 138180
actgtgtgg atacagaaat aacattcag cagtgtttgt gtagcaagat gtattttcat 138240
catgraattg gtactgaaca aagcatttc ttcagatggt gcccagtgac tatagtgact 138300
aattggaaag cagaaggtgt ggagtgtggt taaatccaaa aaaagagtag cagcttaaga 138360
gactgtagga aatacagtgtg acaagtttca ggagacagg atttgatcc cagttaagt 138420
gattgttcct ggaaatgttca ttttatttaa ttagaaaaac tgataaatat gctcctaa 138480
gcactcag ttctgatagg ctaaagtgc atgattatt tttaagcaga aacttaacta 138540
cagttattct cagtgtttta actaagtgct acatgtgatt ctgcatttct tattaatga 138600
gacgtacaat ttccagttgc atgtttct tatcttttctt agtggcaga taatgtttatt 138660
tataaaacaa taacaatata ggcttatata actgtagcaa cagaaataat agtagtcatt 138720
tacagggcca ggaactgtgc aaaaacagt ttacatgca tttgatttctc agagcagtac 138780
cattggtgg gtactattat ttcatataata cagatgagca agcaaagttt tcagattac 138840
taattaactt ggccaaggga cgaagtacg ttttgaatct ggcttgtcca ccataaaacc 138900
ctttatcctt aaccactcag gtgtgtgtcc cagagtagac acagcaagt gagccaaagt 138960
gttccaagtg ggttttcagc cccaaaaatc tcccctcact tgaaaaataa tctagaacaa 139020
ttrattttcag aggaatcagt cttctttgcc cagtaagaat gaagtcatca actccagagt 139080
aaaagaatag ggcaagctgat gctgttgta aagtgaattc taatgaggta aaagtgggca 139140
ggtgtttact ggaggagaaa ggtcttagc gaggatagtc gcatgtggaag tggaatatgc 139200
tgcatatgcc cccagttgc cattgttgtg agagatattc aacagaaaa agtacgccag 139260
ttgccagca attgttgaat gactgttgcc atggaaagca tacgaaagaa agtactgagc 139320
aaaagttgta tcatggtcgg tagaatagag acaacagaga aactgactgc aagtgtctagc 139380
atcactcaaa aagcatttgt tgttcaaggaa ctattaagta tcaggcagac agagagattc 139440
ctgagaaaca gctctgtcc tcaaaggaag gactcactgg ataagatggg aggcaaaccc 139500
aggcaggcta gcattgatgc aagatgctga gtgccataac aaacgtctaa ggagtttgct 139560
ttagtgtgag tgtgaaggga ggattagaca tagttaattc taacacgagg taggaagtgt 139620
taagtgtgct aatagcaata caagtcaaga attatgagag cccagcgaag gatggattaa 139680
ttctgactgg gactctcata gaagatgtgg tgtctaagtg ggacttgaa ggattggaat 139740
gagaaatagaa gcagtgatga gattctgctc atcacaggg agttggtgta aagaagaaag 139800
tttatttgcc tgtgcttgt tttcgtaagg caggacggct acaagcatgg agctgaaqtt 139860
cagactgac tggctttaat ttctgtgtct gtcatttctg tgtgccttg aactttcata 139920
tttttcttg taaatgaga tttagtacc ttcttcatgg cattgttatt gggaacaatt 139980
acattataar atgtttagta atgaaagtgt ttaagtacat gttcaatasa tgataggtttt 140040
tattgtctgt ggtatgacta ttccatgaa cattatctca gtgtttctggg tagcatctga 140100
ggctaatqgg ccattgttag ggaattttaa aagttaagga aatgcaacta caatttcatc 140160
tgccatttgtc ctcttttcag ataattgtat atgagatacc ttgcctattc ttggatcata 140220
gacttgtttt tttgttttttg attttgtttgt gggtttttttt tctataaaat agagcaaatt 140280
atggattcct ttttataatt aacttttcct gttctaaagt cctatcttgg atggtccact 140340
cttgttgtg tgttcagatc cagtagtgag tgtagaaggga cagttaccat agtcagcctc 140400
tcaattaaaa ttctgtgtg tctacagacc agtttgttc ctctcctagt cacaactatg 140460
ctgttgagaa tcatcataga atatgggaac tgcagcaac tgcagctaaa tcttttgttt 140520
taccaatgaa aacctccagc ccagttgcag gaagaaaatt gtcaagtttg tacagagaga 140580
caggcaggg tggtcctgtg tactagtcct caagtgtgct gactcacagg ccagtgccct 140640
agatgcttta catgccttt ctgttttct tccgcagact taggctgtga ggagggcaaa 140700
aatgccttc ctcttcctca tttctctcttc cctccccctt cctcctgct ttggtaaag 140760
ttgaaaatg aagtggtgc tttgacaagg catcctagc atgcttttca cagcacctc 140820
tactgagtcc aggccttca cagttgcag ccagttgac aggcagtaa gtgaagaaat 140880
tggaaaact ttcaattgtc ttagcattga aaaaagtcag aagaaggcag gtgacaaacg 140940
tctgtcatga gcacacttgt aggtagttaa caaaaactgg gagacttca ggattccctt 141000
ctgcctccc ccgaaaaca aggattataa aacttttca ttttacaaga caactctagc 141060
tgtcccagtgg tgactaagtt gaaaggatt tggaagcagt acttggttc cgtgtacaca 141120
gaacttggaa cacatgcaaa caagcattta ttgatttca ctatgtatta ggtatttctg 141180
cccttggaca ttaaaaacat gcttgccctt tagtatctc attttggaaa tctgccctct 141240
tgtccctctt taaaggatttg aattctccct tgaatgtgca gaaaatgctg ttttctact 141300
gcagaattta ttttcattt tttgaaatt tttattagtg tgttataagt gtgtctttca 141360
tgtaattgga atgcctctct taaggaaag ggtttgact gttgttttc ccatactata 141420
ccacatacac tatgttgaat tgataaattt acttattcag tgaatgtttt ggtattataa 141480
tagacatgtt gcaaggtagt ttagcaaagt gataaggact catgtggaat cagacataca 141540
```

105

```
gggatttgaa ttgtagctcc actatta'ca gttctgtgac c'ctgcctac ctatgtttta 141480
gtccctcttt tgttaaatgg caataacta  aaagtacacc ctcttaagct gttacagaga 141640
ttaaaagaat tgatgaaagt aaaatgtga  gtctattttc tagcattaaa gtgctcagta 14170
tatgcaagca cctattagta attatgtta  jaaataataa tgataattat catcatcatc 141760
atcatcatca tcatcatttg ttgccactat agctgtgtca gttctttcag atctcaaatg 141840
atccccttc tttcttaaa  tatataatg  agataagcaa aagaatatat tgtagagaaa 141940
aagcccaatg tttattaatg cgttgctatt jctatgctgt gtgctttat gagctagaga 141960
accaagaaa  gctacttttc ctgtgctt   cacctattct tagctgtctg gattttcagca 14200
ctatgggtat cagaagacac cacctcaaaa cacagtaac ttaaaaagaa ttttttgccca 142040
atgtttgaa  caggcagcac ccaagttccc cacctcagat cttcagtgtg aagtcctccto 141140
cctcccatgc tcaaagcagc tctagaattg cacagccacc tcaaagaagc aaatccagca 142280
gagattttat ggctttagca ccataccgcc ttatctcctt agctgtcttg aagagacaa  142320
tagaggttgt aggagaagta atcatcctaa aaccaacagg tggccccagt tgtagagctat 142320
gtagcacaca ggctgtggtg ataggattg cttggtgtat gtgtgaaga gcaaggaag  142380
tctataatgc agtgttctga gtgtgtacag aacttatgta ggaaatcaaa acttgagata 142440
gagaaacaag tcctttaat ggtaaaacca ttaggatctg aaaataagtg tgtttgaata 142500
gtccatttct gttctcttac agatgaagaa acaaaagtc ttcatttaag gaaagaaata 142560
gtccaatctg ttgttactc tttaattga cattgattga acctccaat gacaaagaat 142620
gtgtttatca ttagatagat atgttagaa atgagaaaga ggctgtgccc tcaaaatttt 142680
gtcttaaag  gggaacatct agataatcaa tgagctaata aatgattaga tacagtgttg 142740
tccccttaac catctctttg gattca aac attttccaca ctctctctaa agactcccac 142800
tcatgcccct ggtgagtcaa aagctcctgg ccagtagcct cttctctgat caactcatat 142860
attctgtctc atatcacctt tgctggatgg ataccagaat caagaatcaa tttctttgt  142920
tttcaagcct gtttatattt ctgtgtttt attatacttg gacaatttaa ttaaaatgat 142980
gtgaagtagt aaaatatgag tgcaaagaa agtctttttt ctgaaagtaa atactttga  143040
aaggctatcg gatgaatcac taaaatcatt gtaaatattag gtatcagaga gacgactcta 143100
aggttggga aaacatgga agaagatcta aacttatatt tatttttataa gtgccttcaa 143160
gttcctgata tcaaaatatt gatcaataca tgtgcttcac agtgtttttaa gttttttttgg 143220
tatattttt aaataatcta attgcratcc acgttgatc agttaagagg gcttccactg 143280
taattaagac tttagtaaa gttctgtgaa ggatacaaac taaatgttgt gacggagaac 143340
agcaggatga ccngcttaag gtgttcttta caagataaca agaagccagc caagcaaaag 143400
tagggtagaa gagtttttggg cactgacaag cgcatcggag gagttgtgt atgttgcaga 143460
aacaagcact gagggaaagg gaaatctcaa ggttttttcag gtcaacatcg cttagacagt 143500
gcagattctc aaagttcatg caaaatttt  ggacttttat tcaaagcatg atgagaaagc 143560
atgaggggct tgaggggatc tgtttacag  gaagtgattt ccattttcaa aagagcttcc 143640
tggctgctag atcaactata gatcagaacg gaaaaaggga aagtgggcaa ggtcgaggca 143720
gggatgaatt aaagtgacaa aggcaagtta taaagtgcaa taagtctaca gttacaggtg 143760
agcagtgaca gaccctagg ccactctgag aatggagatg taaagtgggc attgtaaata 143820
catttgtgac atttttagac ggagtgtcat ccatattttc tttagtcaat cttcatgacc 143880
aaacttaaag ctaattttg aaggtatagg tgatctgatg ggggagaaaa tcctaccaaa 143940
agtctaggcag ctgctttct tttctagtt ngatatttat tggctgtgtt actcagagca 144000
aggaacttaa ctcttggaag cttatttaga aaaggacaat aataatattc tgtgcagcct 144060
acttcatatt tggttatgc agtttaaata aatagatggc ttacatgtat ctaggacttt 144120
gttaagttta ttccttcact tgatctcac gggggataag gcagatacta tgatcctcac 144180
gtcacagtta attagaccag tactgttca ataaacggtt attgaacatc tactatgtca 144240
gggtcaggga caggccctga gacttttgta atagattaca cctagcctg tcctacagaa 144300
gttcacagtc ttatgtaacaa gacatatatg aaaatgtgaa attatagaat atcaagataa 144360
atgtttagac agaaagtaca ttataatcc agtgtaggaa gaaatgaatt ttttctggaa 144420
tggattgaaac gcttcccact ggtattaaca tttggctgag gtcttgaagg atgtgtagaa 144470
ttttttcaga tatgggggt cattttgag  aagtatatgc aaaagtatgc aggcctggaa 144540
agaaatcgtt catatgcatc tatgtgggtg gggcctcatg tgattggcaa actattagga 144600
ataggttttt agagtgaatt aggagcaggg aggctcctac tcatggatct gttagtgagt 144660
attttatgca aaagtaggaa aactagtaca ttttcttcat tctcattctt ttctttctta 144720
tttttccttc cagattaat ttgatctca gctttttttc tggaactctt aattttagca 144780
gttatataca aagggaacac tcctagaatag tgagaaatgc ctttttttctt ccaaaagtct 144840
tcaggaattc tgttacttag caggagttgt ttcctgccat gttttttgagaa actttaaaa 144960
```

106

```
gcgattcaaa cgttggtgca aaggtaacta aatacttgt agtgaggagc atcttgtcag 145020
agaaggcac tgagctttt ctaaagtcta agtagttaaa attgtccagg aggcctagt 145080
tttggtcct gggctggca gcattggctc ttgttgtca tgcctccatt cctcctctg 145144
gaaaatagta aagagaaaa tgtataagtt agatatgtg aagagtgtta gagctaatta 145200
aat ttacct atttttta tgagtaaata actcaaag aggagaaatg actaagttca 145260
tattaaaaat ctgcagtaa cttgtcatt tagtcattta aagaacctgc agcttatttg 145320
gtcatttatg cattattcc atttacaaa catcttcag tgcctccat gtgccagaca 145380
ctgtggtaaa tgctagaaca atagtgataa gtaaatatca atgattcttg cctaatcag 145440
ggagatgaaa ttaaagaaat aaacaaaag ttaaagaaaa taattaaaga tagagataaa 145500
gtatgatgaa aagaaataag gtactacaat agatattaa gagtagggac cgggcatgt 145560
ggctcactgc tgtaatccca gcatttggg aggccgagc gggtggatca caaggtcagg 145620
acatcgagac catcctggct aatacagtga aacccatct ctactaaaaa tacaaaaaaa 145680
attagccagt cgtgatggca ggcacctgta gtcccagcta ctcgggagc tgaggcagga 145740
gaatggcgtg aacccaggag gtggagcttg cattgagccg agatcgcgcc actgcaatcc 145800
agtctgggca acagaatgag actccatctc aaaaaaaaaa aagaaaaaaa aaaagagtag 145860
gatgagtatt ttagaaaagg cctctatgaa gagagaaat tttaagctga gatcctgaaga 145920
atgccaaggg gtcagctact taaatagggt tgtaagagct tttcagtaca taacagcttg 145980
tgtaaaaact caattcataa aagtcctgc tgtcctgaaa agtaagagaa agaccacaat 146040
gaagccaagg cagagtttt atggccttgaa agtagatgtg gtgggatagta cagacaggca 146100
caaactcag agcttagag ttcaaagctc cttattggc agactcttga ttgattcac 146160
acgcctgcag aaaagtaaag gcaagtatag gtanatttca agactctatt ggctcagcat 146220
ttgtttcaaa tgtgttttc gcagccatgct ttctgagac catagattac aaaaacagaa 146280
ataaaaatga ttcagtttt cttctgtgtc tacctcaa cttaattagt gctcacagct 146340
ccagaaatca gttcaaggca gggtcaga gtnaattcag atatagatga agtgggactt 146400
agtttctggt gttgcacctt ggtttttaaag atacagaact tcttatcttc catagctta 146460
ttttatcctt cattttgtc ctttcacttc ctcagtggat aaatcctagc tagaagatga 146520
attttgctga tttaagtaac cctcggggtg ttctctgtag cttcagtaa agcttgtct 146580
tgattaacag atgctgatca agttcatggg tatgcattac agtgtacgtt tgctggttgg 146640
cctaggaaaa ccatttgca cgtatgactt ttaatagaaa agaatggcaa ataagaaaca 146700
aaagatttt tttctgcac tcacccaagg aacaaaatt aagacagcca aagaaaatt 146760
ctccttcat tttacggata aattacctgg tgtctcttgc ggtactggtt cattcgtgaa 146820
ccagcacaag gtattttgtg actatggtta tttcaagat gactgtgca gaagggtaag 146880
ctttaaagct aattcttac acaacccact tcactttggc taatagctt gctttagtt 146940
gttctgctt ggttggttca tgtgctagt cctaaagtct gctaaaago agagttaggt 147000
agatgtactc cctacaggt cttttagttg aatccacct cctagcccca gatgatgctg 147060
agtgaatact cactcaagcc ttggtgtgta gcttttactt tggcctgctga actaaacca 147120
aggaatgagac tttttgatc aaggtcaga cctaagtct cagatcctt atttaaaga 147180
gactcctca cccagctcc agatcgacc cctggccag cattcctggc tgagtcccca 147240
caagtggtag agccttgcc tcaaaggt catcacaat attgtgagtc cctgttaca 147300
tattcattt ttgaatgaac ctctgaggac cctgccctc tcaagactgg cgttcctct 147360
gccatctcat caaagtggt ttagccatg gagtagtgtc atagcctcct ctaatccaaa 147420
gctggcaggt gctaagaaga ggaagctgg aactcagaac ctcttgtcttt gtggcaacat 147480
gttagttgca gtctatctgt gagcttcaca gtccattga ctcttgtaca gaaatcagca 147540
agagtagtc ttcagtcaaa ctggaacctc aacaatggac tttgttgctg tcaggttcc 147600
tttccttac tcttcttaag agaacctaga gtcactatga aagaaccaca agtggaaaag 147660
gaatacttgg gctcagagat gtgtccatcc tgcatgaacc cttgctcct catttgttca 147720
tcgggttaaa gttatccttt cctgccctga ctacctatt gactattcac aacagaaaat 147780
gaatgtagga gattgaaat tgtataatgc actctaagtt atttattacct ctcttaaatt 147840
gctagtattt catcctttgt atctagaga ataatagtgt aggtagga tttacaaact 147900
acagcaacaa gacaaaagc agctaaggc cagatttt aaataaagtt ttattgaaac 147960
acagcaatgt aaatatgtaa actcattgt ttcatttt tcttgtgtg cctcatgct 148020
ataaaataa cactgagtag ttcagcagag acatatgtc ccgtaaaac taaatatattt 148080
actatttggc tttttgcaga aaaagtttgc ttatactgg catacaggag caaagtgag 148140
acctcaagt ttgaatcct gtgtttagat tctgaatctt ctacttaatg gctatatgac 148200
cttgttcaag ttaattagct ttacttttct tttatgaaa tacaaataaa caatgtgtcc 148260
ccacccttgtg ctatccaatt agcattaaat gagtaattca tgtaagcac ttagtcagt 148320
atttggcaca tagttgactgc tcagtgttgg cctgttattat tatccaaaga atgaaagctc 148380
```

107

```
tggtttgtgt tgatcgactc tcagcggatg gagtagcatg gtttatggca caggccatgg 148140
agtaggacag aaaattattt atatcccagc tctgccactc acaacataaa tgactcggag 148200
aagattaatt aatctccctg aacttcaget tcctcatgca tgcaatagga aaaagaaatt 148360
aaagagttat tgtgaaaagt aagtcataaa atgcatgtta agtgccaaga atagaattg 148420
gaacatagta aaaactaaaa agttcatata aatacaataa tacataagaa gaagaatgg 148480
acttttctaa gtagtactag cttccaaggaa caaataga a gttggtagta actactatgc 148740
aaacatcatg tgaggtatgga gg tttactt atgattaata atgtctctgta caacaggtt 148800
tgcatattcc aggcccattgt aaattaaata cactttaata tgtagttgtt tagaacagctg 148860
tctaggcttt tattctagcc aatagtcttt caagacaagg tacttttctg tactaacaat 148920
ccatgactct atgagttgtc ttcagtgaag tgatagatta aggatataag catacacgtt 148980
gagtcactct atggacatc ccgatcatat cctcttttcta taataacaag tgggtacaca 149040
gtgattctaa ggagtttgcc atatcggttg aaaatgtctt cattttgaac ccatccaaca 149100
tcttcaggt tgagtttctgt aatcggatgt aaatcttctt tctctcggaa aaacggctga 149160
ggagactggg tgtttctaggt ggaatacatt aaggctggtg gggtttttagt gccagcccaa 149220
gacacacagct ctcattctca gttggcctaa gctaacaggg agtgatcaag ttcagtggac 149280
tgaagcacag ggagttatta cgtatcttcc agatctgtgg atgctacatg ggcaacctaa 149340
tttagaggaa tatgaaacaa gtacacagac cgtgcaattt tcgttattcc ctacctagct 149400
ctttatgagt tattgttcat tatattagca caaaaatacg gatttcgaga gctctcttct 149460
tcaagcgggc ttacatctca attgccagtg aaaaggcata aatacacaaa aagttacttg 149520
ataatataaa ataaaataat caattccattc agtgcaaagc atgtcatgaa agaaagatgg 149580
gtcaacttag tatccagaga ttaaaatagg taaatgagtt grattcattc atttattctc 149640
atattcattc atgttcaaaa aaattgtgta gtcattatig gaacccttca aaggggatatg 149700
aataataata taagctttat gagtgcaaag gratcatgtg tcttatttac cactctattc 149760
cacagtgtct agccccataga ggaaagacaa ggactgagtt agacatagat cettatttaa 149820
tactcagtgt ttagatgtat gtagttccta aaacatttat ggatatttat ggagctccta 149880
acatgatttt gggctctaat ttatgaaata ctgcaattag acatttagta gacatctgtt 149940
ggtttgatat gccagcatg catttcctct ctgttcacag cacttaatt ttcctctggc 150000
tgatagctta gtaacatgga tagttgttct gcttcccttg acaaggtgcc ggcccatgcc 150060
caagcaaggc taatcttjaa ctgtgtaaac agttatcata aatggctgga gcaatggtga 150120
gaccctaaag agatgtgtca tggaatactg acatctagat ttctagagct gttgcaattt 150180
ctgtcttata tgatgcaatt tttcagctgg ggcttcctca tatccttcca aaattctgtt 150240
cttcaaatt acacaaccta aactaataaa gcaatggttt tgagataaaaa attgataaga 150300
cgcacacatt tttatgtaca tttaaaagat gggtgaagac cttcagttta tagctaggag 150360
taggagtgtg taaggttctt tatcaacagag atggcttttg agcttaatt ttaaagaatg 150420
gaaaggatct gcaagatc ttaaagaaag aaagcaggag gtaagagagc tgtgcaggct 150480
ggagcagggg catgactata ggccagagc ctacggtaga gaaacaactg aaaaacagcc 150540
acgtctgtgc tggaactcag tgaactcact gagcatccaa tgtctgtcgt gccattacac 150600
ttaagtcaga tgttcctgtt ccccattttct agcttatcct actcattcac aacaaccttc 150660
ccctccattg tctctcatcc attactgga cttgagctat gggatgttag aaaggaaagg 150720
tcttatgaga ccagctagga ctgaccctct tagccaaaag tgatgctaga gccctccagg 150780
caccccatgcc acacatgaag tgtcggatac cttagaaaag ctcagtttta ctcagagagc 150840
tatgtgatct attttctctc acctgcatct ctactgcttt cctccttcc cctatactg 150900
tgtccacatg ggcttttgt ttctaaagct cttcagtctt gttcctgagc ctcattcaga 150960
gcctctgttc cattccttct acctgagact gcttctttag ccttagcct ggctggctgc 151020
ttcttagggt tcatttctca tctcaatgc tagtaacaca gagaggtctc cctgccca tc 151080
ctgtctaaaa tagtcctcac agtcactctc acatcattcc atttattctt ctttgtaata 151140
ttccaccat ctaaattgc tttgttatt cacatgccat tctctctcct cttctagagc 151200
taagctccaa gagagcattaa acttatcttt ntatccattg attatcccctc ttagcaccag 151260
cttgtgcct aggatacact acacattcag caaacttgtt tgatggttga atgattaggc 151320
agaagataga tgcagagtag aaacagaaaa tttcaactg taggacctca aatcccacagt 151380
gagtacaaaa gttctattac aattattca caaaaacaaa aagagttga aaaacactga 151440
tttagtttaa actctgttat tttgacagga aaaatacagc caagagagga aaaggcctt 151500
gttcacagac gtgcttcttt gtttctactt ctcacaatc atgtcaagca cctgaagatt 151560
tttataaggg aaactccagt ttatcagtct gttttctctg tcccctgcc cttggttata 151620
tatgtcagcc aaagggtga gttaaattc catgacagt gatcccagcg ttgttctaat 151680
cttagcctc gtttgcagta ctacatctca trggtttca atgcctagta attaagacac 151740
atgcttaata ataaatacac aatatatgacc tjggaggatg gcttttcttc cacatctcct 151800
```

108

```
tttgcagcca tcttccaact gggcatcagg gcctgcatca agaaagttct tgtaagtctc 151460
aaatgaatcc aaaatcaaag tgaaatgcta cattgtcaca tgtcacaatg acctaattc  151620
tccatcacag gcaaggcct  tggcaaacta gtccta cc  attccaatt ctgtgcata  151360
cccgacatc agtcatactg gtgtttatgg agtttttctg ttttgccttc ctcttttatc 152040
ttggtgtttt ggataaagtg gtcccttat ctagacacag gaacaagttg cttaacactg 152100
tgccggctc ctgtcaaagg accacctaa cactacctt aatagcaatt atgatcattt  152160
atcttgtgtc tgttcctt attactctct caaatacc  ttattttc ttatgtaaa  152220
attactgaa cacttactta agctgtctga agtaatta catgtcttc ttgtgtaatt  152280
gtggtacccc aattttctgg caatattagt ttctattctc aataaataca tgttgaattt  152340
actaaataa tgatacatt gtatcatcta aatgacagct acttggat g tgtctcagaa  152400
tcctaagtaa atttcatatt gtttaaggtc tttggtatca tttatattca ttatgtaat  152460
tctttgaatg tcagtattat atcctacgata caatagaata taaaaagtta tgtacagca  152520
ctcttattct cctttgcagtg atggaaatga agcacatctc ttgatgtttc aatgttagg  152580
taagatgatg aatatgtga ttcccaccaa taaggataaa atrattccag gattggaatg  152640
agtgcctgaa agtctcccca ttcacacata cttttgatct cctttcccta aaatcaagct  152700
gtcctgtcac ct atttatct gctatttaca atgatgttc cacattcca gggacaggag  152760
ccaagtagaa atatctggtgt gagaggcctt aaatgaagtg acaataaaaa aggagttgtt  152820
aatcccaata gtttcctctc tgggagacag ctgtttattac cactacccag ggctgggaga  152880
ttatcataa ctaaatgttat ggtgcttaa ccagtaactta ttattaaaga ggtttgagtg  152940
aggtgtgtggg agattgtaac agcccacacc atgcagttgtg tgggttttc tgtcttcact  153000
ggttcctgtc gctctgttc ctccaaaggg aatttcctctt ctcgttttt acttactctg  153060
attgttggac acgttctgtt acagagtttc ttggaggcag gtcctcaga attgacact   153120
ctggcagggc tccctgaatg ctctctctat ctctgccagg ctttgctgt tgctcttcct  153180
tctaccaata tatgtactc tttatgtaca tgtaactata ccaaacctc tctcctggct  153240
gattcttctct tacttttcag tgtctaaaat ggcacttctt cttggaaggt ttctttgagg  153300
tcccaaagtg atggggttag gtgtccctgc ctgctgaaat catccttaac atagacatgta 153360
gactgaattg ctattgccta catagttgtc agtctctccc attgtcaaag tgacaatccc  153420
aaagtggttg gggatggct ggtttaccac tgtatctcca ttgctaaaa tagtgtcttc  153480
acaagttcta gatactgttt gtcgaatggt gggtggatgg atagatgtac caaagaatag  153540
gtatgtatgt gttagacttt cccacggatg agacaggaat acataccaaca tacccaccaa  153600
tttatttttc ttatatttca atagattttta atgtagtaat gcctctttat ctgccatcag  153660
agcaaataaa tttgctacat gacacaagttt tccacgaaat caagctgac cctatccaa  153720
gactatttta aaattccatg acatatcaca gacattaagg actaagttc tgtcgtaga  153780
ctggtagaag tcatttcttca acttacttg tgctgtttct agaccttact ttcccaatt  153840
gaaaacacc tctttggaatg aaagacgtta attataagaa atgtcttttgg cacaagtatct 153900
gggattttc acttgttgaa gtatctactc ttaattatta ctatccaaaa gcattacagg  153960
ccagtcaag tgtcctacac ctgtaatcc agcactttaa aagtctgagg tgggatatc   154020
gcttgcagtc agtagttcaa gaccactttg ctgcaaataa ttgaatatcca acttctacagt 154080
ttagactgtc agtaacat gatggcacca ctgcactcca accagttga cagagccaga  154140
cctgttttca gaaaaaaaaa aaaacataga agaagaagag gaaaaaaaaga agcaccatat  154200
tcaagtgttt ctaaatggc aataactgcg tttcatccaa gcaacatgat gaagtctgt   154260
gcattaatcc agtacacata gagttctgat tctgaaaaat cacccattc ttctctccta  154320
cttgtatat  ttacaaagt agtctccatc ttgctgcc ttttagtct gctctttc    154380
atctcttac tgtctaactt attcacatag caggttaaaa gtttattttt aacacttaag  154440
acttaaaatg catttatta caagtcacaa aggtataatct tttaagtaaa gtaagatatg  154500
gggttgatca caactcctgc agatagtga tttttgaaa aacatacaaa aagcaggctg  154560
caggtactag tttgacactg catgatccca agatttttat acaaggaaat caagaactc  154620
agagacttac ctgttacttg gatttgaaaa aataactgg gtttatag aatttacta   154680
aataactaaa atattgttga atcataac attttctaat caattacct atactctaga   154740
atgttagagt ctgaaatgc attaagtatt atagatatca aacaatatt tcacagatgg  154800
gaaatcttag gcctaggaga gcgtggttatt tacttaagtg catacaagta ctttgtctaca 154860
ataaaataa aaagagaatc gtttaggtct tcttacatct agtctaatac tttgtctaca  154920
gaactatatt atctcttctg attgaatatt gtttgtgaca gaatcaaagt agatataata  154980
cttacact  attaattata ttattcaaca cttattaat gactgccct tctctaggc  155040
cttggccta aggttctgt ctgttattg ctgtcttcct gtctttctt tacttcctct 155100
ctctctgtct tgcttaggt ttggtctaag tgtagaaatg gtttacagt aagactga   155160
gaaatctgg gagccagggt tcactcaagt aaattcaggc caggtacct gcaggccatg  155220
```

109

```
crctttttaag gagaagtgcg taaaatgcacc ctcttagcct tagaggagaa agcactctgt 155250
ttaaqqqtaag agatctttgc agaaggggaa aatgcgcaga taattttaag ggcaaaatgt 155340
cctgqrctcc tgtccgtcta aggatccgtt gtgtctccct gctcccattt cgtccaccac 155400
catctcaccc tttcctactt cacttctaaa gtcctaccaa gaaacaccat cccttaggga 155460
ctccagggcc caactaaatg tgtgaacca agtacacgac atgagggatt agatctggat 155520
cctaacatct atatcctgta gggataacact ttatcgcagc aagggagagg aacagatcct 155580
aaaaacctq taganagtat attatacatat tttaactgagt tttatgtgct ccttatatac 155640
acttacacct gggatatgga tcgtgtcccattt tgacaaacct atatccacaca ttgggagaat 155700
actatctgat gatctctcc tcgtcagagaa acacacactta tcgaaatctt tactctagtt 155760
attatactaq acatttaaag acagtgccta tcgtcgctgtg tcgatatacaaa gagtcttcctc 155830
attaqattqq agaacaaat agtgtgaatg gcagaaggata aatggctatc ttagaagaca 155860
gcaaaccaag cacaggagca actagttcag ggtcaccaa cagtcaacatc ccatgtttggg 155940
ttcagcctct cctcagcccc tgctgcaggg catatgcct cataaacaac tcatcatcca 156000
tttattcatc aaatattttat taagctatcta ccatgtccca gacactctgc tggcttttgg 156060
gcacaaagaa gcatgtccta attttcaggg aattcacatt gactaaaaca gccacacata 156120
tatacaaata aacaaagaaa attatcttttag attaattaaa gaatgggaaa taagacagag 156180
tgatgtgata cacactgatg aggggtcact atttagaaga ggtgatgaag caagatctat 156240
aagagaaggt gtctcttgag ctgaaacaca actactacaa aggagtcatg ttctgcaaaga 156300
ggtaagggaa gaacattgca ggaaggcggg gaacagctgg tgcacagatct cctcatgcaga 156360
atgagctttgg agctcccaggggg aagagactga aagtcaatgt ggctacagca gggcagcaag 156420
agaagcagct ttcaagttag gtgaagtcag aagagcaggc tattccatct ctcatgtgatg 156480
gtccagatgct gagacttttc ctgtcgtgccag tgcagaaact tttagttcgat ttgcaacaagg 156540
agaaagacca atgtcttttg tttgttttgt ctttcttttt taaataagat ctcctctagct 156600
tctggctaga gaagtcaatt tgtctcactgaa aaccaaatgt cctaaaactc aaggccatga 156660
acacaacttt caatatactag gagggctata gagtcggtcg agagcaagaa ttgtgtcgaaa 156720
ccagaatctc agtcactaga agtatgcaag cagatcttaa tcgatcactg ctaggtttcc 156780
tgcaagatgt atgtctggttt tcagtcggag tagcacagat gggttatatg gttcagctgc 156840
aatcttttaag agattatgac ctttaaagcc catttctctct aggagctaac aaaaaacgga 156900
cactcacgct agataaattag gcacctactgg ttaattggcat tctttattgc atcatgggcc 156960
aaaagatcttt caataacatt ttaaaaagtat ttaacaaaaa aaggtctttgg aagcaaatag 157020
attttcactc atctgggata aaaatctgta gaattcctca caatctttta tacagctaat 157080
gtgaatatg aacctctaaa acaggtacaa agtctgcatc attttccaaa ttctatttgac 157140
caaaaaaac ttatttttta aggagccatct tgtcggccta tagtttcatg aaaccttctg 157200
ggcaatgttc cacaactgta atttgagatc ccatacacag tgcactttg cggtttctgga 157260
aacaagttat attgtaaaaa gagtaaagga tctaagagca tttaactttt tattcttaaaa 157320
gaaaaaaata atatacccta agtcacaagg atgtgatgag gactaaatag acttaatatat 157380
gtaaaaagga ccaaaaagca ctctaaaata ctgtttcat gacaatgatg aatgacttttc 157440
ctcatcatcc acctttggaag ggcaattttct aggcattgaa gatggccttg tggttggtct 157500
cactgggca aagattatga actctctcatcc tatatcatat agtaaaacaaa agtttaggag 157560
ctgactgact tggagtttaa tcccatgacc ttgggtttat tagcatcata tttttaattag 157620
aagtataatc aacacaaac caggattagc aactgcattg cgattctaca gaatcagtcc 157680
tgtcggtatg tttctcacagc taagctatta ctatggctga tacactgggg ggtctgaaaa 157740
tcagctagca acatgtacaa gcacaaagtg aacattagca gacaaatgaa cactaagagt 157800
taaggctaq ctgggaaaa tcgacacttg tttttcttaaa cctgtattag cagcaatagc 157860
tggattttcc ctaagcacc ttttatct ttgctttaa ttgatagaca catgaggg 157910
aagatctta gattaagagt caagaatatc tcgaaagtc atatgtccta gtgtgctac 157980
cttcaatatg ttattaaaat ttttgagcct tgttttctcc cttttaaaa tatgaccag 158040
tcatcctttt gcagctcaa taggtctctt gtagaacca agtaaggtaa ttattaaag 158100
tgttttatat gcatgctac tgtacttaat aaacaagaca acttctggct tctaatagat 158160
attaataaa attgatttta cacacatgaa ttggcatcg aacagggaa ttgttgagtg 158220
gggtagttaq acggttagga tgtatggca gttggttaga ctgctctctc caaaggatga 158280
atgttatgat tcttttgttg gatgggttga tggacagatg acagttgggt ggtaaattga 158340
tgggtttgat cactgaacta gtggatggat tcattttgga gtcatctgac cacttcttgc 158400
agttcttat tcattaatcc ttctctctc ttgtagtctg ttccagttc tcaaaggag 158460
tctatctcat ctttgggttt tatgaacgta ggatgtcaa catgctgacc tccttttgtg 158520
gggctctca ctctgcttc attacagcga gcttaccgt tgatacatcc aatcagtttg 158580
tccttcagct gggccctgaa ctgcaggatg ccctcatcag catcattgac cattacaagt 158640
```

```
ggcaaaatt tgtctacatt tatgatgccg accgggtaa gccaagggtt agggggga 158700
gactttgag ggatggaaaa aaaattacca gcagaaagga aatggtgcc tcacggttc 158760
cctaaaaat atggggaaaa tatccaaaat ggttatttc tgaggaatgt gactgttta 158820
tcattagctg acctctaacc cagtgttgag aggcatctg agaataatt tcttgatga 158880
ccattcaact ctagagccaa ctaagttcat atggtctgtg agtcgaaact caatgcaaaa 158940
ggacctaga cttgacatgc agacagacc ggatggaaa cctaggttct gtgcctgca 159000
gctgtttgac tttgacacaa ctctctgtc ctcaattca gcacttatat aatcaggata 159060
aaattcttcta tgcctgcatt tttcaatgtc tatattggg ataaaacaa tgtccttctt 159120
ataaagttt tgtgaaagtg aatgagatga ctatgaaggt ttcagtgtct ggaagatagt 159180
aaaaactcaa aattcttct ctgtcttaga tgttatcatc ataatcacc tcctcatcat 159240
aatcatcatc cttctctgg cttctaatt cttccttcctt tgaattttcat atcacatttt 159300
ccaaatgttt tctatacttt ttcttctcta tgtctttact catgttattc cagttttctg 159360
gaatgcactt ccttctcca atttacatct gtaaatcctt ctctctctttt gcaggatgtc 159420
cctattccac aattctgtgg atgggagcac tctctccaac tccatgatg tttgtcttt 159480
actgcctac cttctcattg tatactaaat agtctttgtaa taattattc actactggtg 159540
taaacaaata aatgggtac gcaagacctg aaagtggaga cagaggagta cagtactgat 159600
gtttttgct gcagggagtc ttagaaaact tttgagttgg agagagtttt gtgaaagtga 159660
ttttttcagtc agttaggtag gcgtcgttca gatggggaag agccaacaaa agaaaccagg 159720
aacaatccat tttcttctgat tttctctttca ctgtccccac tttaataact tccttctca 159780
gactcacact attgcatggg tcacctggaa gtctattca ggacacctt gcagcataat 159840
gtagctggag gcctgcagt aataaacca gaaaatgta cctttgcttg tgggagata 159960
tctctggggt catcagaagc acacacctc tcaaagacc tcacctacc tcagaactca 159960
gaggtcagag cctgccctt tttcagctgt gtaacttgg actaatgact aaatctctct 160020
aagcctcaat ttccacacta taaaataggg ataataatag tatctacctt gaaagattaa 160080
gtggattaaa actaataaa cagtgctaga cacacagtac attttcagta aatgttggtc 160140
tcaaactcac caaaaacctt gcactgaaaa ggaaacaaag atagggaagc ataggcagaac 160200
caatctgcag atgattcttg aggcaagata cctattggt cactgtggaa gaggttaact 160260
gtgttactga aagtcagaaa tgacatacat acaaaaaatt aatccatgca agatcaaaat 160320
aatatctgtg aataattaat aatgcaacc ctcctcaag atgttcatgt tgcaatctct 160380
aggacctgca aatatgtcta tgttaaatgg caaaggaaaa tgaaggctgc agttgggatt 160440
aggttgtta aactattaac ctttaatagg gtaattatcc tgtattatgt tggagggaca 160500
aaatgtaatc acaggttct taaatatctg aagttgggct cagaagtc agtgtcagag 160560
tgtgcaatg taaggaagac gaccaccatt actgggcttg aagatggaag gggtctatag 160620
ctaagaaatg cagggtagct ctagaagttg gaaaaacccaa agagtagtt ctttcctaga 160680
aactttatac acaaacacag cctgctgac acttgattt tagcctagga cactatctc 160740
atgtatttta cctcaagaac tttaagatag tacatttgtg ttgtttaag ccagtaagtc 160800
tgtcataact tgttacagca gcaatagggaa actaatacac catctaattc tccaagaaga 160860
aacaaagcag cattgattaa tggctctct actcatttag ctatagatca gaagagagta 160920
gtttaattca ggacacattt tatttattta tttatttatt tagttagtta gttagttaag 160980
acagagtttc attcttgtca cccagcctgg agtgcaatgg cacgatgtgg gctcactgca 161040
acctctgcct cccaggttca agcaattctc ctgcctcagc ctaccagtta gctggaatta 161100
caggcacctg ccaccatgcc tggctaattt ttgtaatttt tttagtaga gatggggttt 161160
catcattttt gccaggtctg tctcaaactc ctgacctcag gtgatctcacc cacctcgacc 161220
tcccaaagtg ctggaattac aggcgtgagc cactggcct ggcctgccag gacacatatt 161280
ttccaaagtg ctggaattac agccatgagc cactgggcct gatacatat taaacatca 161340
aaacactac tgtgtcagag acaaaatatt agttgttaaa gatacatat taaacatca 161400
haatttgat cacagttat tagttgacca tttagatgct agttggcac acttaataag 161460
hagttaatga gttactacta aaactacag ctaatattta taaaactctt gtagatttca 161520
hgttctcta tgtatcaac attctcactc aatctctcata atgacattat ggggtgagca 161580
ttatttacac cacactttac ctttttaagaa actaaatttt gaacagccta atgagctgc 161640
aatagggaat ttagacatat tttgcatttg agcctcagat tgtttttttaa tcacacttc 161700
tacaatctat gttcagaaac acagtgctg atctcacaga gttagagtt ttccagacag 161760
agaaaatcta aactgagttt ggcagaaagag tagtttgggg ggtaggacgg gaaggtaggt 161820
tcctgagttt agtgaattggt gcccacaaat cctactgtc attttcattc tactcatctg 161880
tattttaggg ttatttgtcc tgcaaaagt cctggataca gctgctgaga aaaactggca 161940
ggtgacagca gtaaaaatct tgacaatcac agaggaggga tacggttatc tccttcagga 162000
cctggagaag aaaaagaagc atctggtggt atgggactgt aaatagaac tctcaatgc 162060
tatcttgggc cagtagtga aagcagcaag ggctcagggt gtgtgtgca ggtgattcag 162120
```

111

```
gaataaccag acacactttt ggcttggggtg ttataaagag ggttataaag agggttcttg   160120
actagttgag actaaaagac ctctatatta ttttctataa ttcacaaaat ttatttctga   16.1.80
aataatataaa acaatggggag cctgacata gggcttcaaa tggttctgag acttgttaac   160240
tccaagtat cctctattg tttaaaaaaa aaatatgctg gatgcagtta ctaggggctg   16.3.00
taactgcagc acttggag actacagcaa gcgaataacc tgagttcagg agttcaagac   160360
cagctacac aacatgtgga aacatttt cctataaaaa aaaataaaaaa aataaaaaat   16.4..0
ttttgttgt gttgtgcat gtacaataa tccagctat tcaggaggtt gagacagtga   16.4.0
ggagaaaag tccctaaac ctgtgtgtg gagtttgaat tgagacaaaa ttttgctact   160540
gcatctgag ctaggacaca gagtagaatt ccatctgaa aaataataaa aataaaaat   16...0
gatataatac attccatttt agattgttatg aaatgtttat atattaggaa cataggttat   16.0.0
agggcaaat ttctggttt gactctggac tctgtcaatc atgatccagg gttttggcatc   16.0.0
tcattgcttt cacctttctta acttgttttta aaggtataaa aaggcagcagc cacctttatt   160780
tctatggttt cctgaacat gccttccct ttgagaaaatc aatgacagt acattcttct   160840
ataaaaaggc atgtgaactt caaagtctt gagctagatc tctctaaact gttcttcccc   160900
tggtctcaaa acaaaagcc atgcccacca cagaattagg attttttgta gattccttat   160960
cttttaaaac tacatttatg tattcaaatt caagactagc aaggtagaag acgttgcaat   163020
aacttttgaa caatgtcata caataaaat gatagttta ggtacttgac aacatgacaa   16.0.0
aggttttaa tggcttcaa gacaaatgag gactctacag agaatcttg tactaggaca   163140
gcttattactc aggacttca gcaatagaaa acatacagag tttgaatgtt atggattctt   16.0.0
taaggacta actgtttac tttatgaagt aaaaatttag ccttccctct tgtaaaagaga   16.0.0
aacccacaa aacttgttca attagagttgg aacttctctg gtgtgttatc aaggattgga   163320
attgccattt ttaattcagg caggataaaa taatagttaa gagtagataat aaaaccagac   16.0.0
tggctaggt tcaaatccta gctctagtat tcactggttt tgtgacttga acagcttttt   163440
taatctttct acatctcaag ttcttaatct gtaaaatgag catcatcatc ataataatag   163500
ccacttttag aggctctttg tgaaaattaa aaggaatcaat atatgtgaag cacttagaac   163560
agagctgcc ccacagtaag tgttatcagc aaacatttgc ctatttttgc tattcctagt   16.0.0
gcctactagg accagcttct tgagtaattt tcttccttag gaataaagtga atccgtctgt   163680
aaaatgtgaa tgaaggcctc tgttttataa aagtgataaa aaggcaaaac aacatagtcg   163740
aggaaaaag tgcaaaatga taactgacata ttaatagaca gatgacctat tgtatattgt   163800
tctatagttac agacagtagc tattactact attttttag tgtgtatgt ataccagata   16.0.0
ctataccaag acttcccat gcattatcct attttattcc cacatcaact ttgtaaaaca   163900
gcttttttca attccctat tttatatatg aagaaaagag agattatact tgcccaacat   16.0.0
ctaaatacta gaatatgata aaatcaggaa gtttaaacta tcttggtctg gtcaaagaac   164040
ctagcttctt aaaattgcaa cttttttact tttctatat ataattaatt cttctatcaa   16.1.0
aggggaaaat ttgcttttgt aatgaagtga cctgttttgta tgttttattt agattgtaac   164100
atattgtcat tttttaaaat tgttttcattc atctattttg aaaagtaaaa gtaaagagtt   164.0
gaaaagtttt tacagatcac ttgattcttt gcttatgtct acattttata gatagaatga   164.0
ctaaaagtca aatgattaa gttattgcc ttagacaat aatgaatgac agtaatgagc   16.1.0
ctacaactta tatctctgac ttacaatctc aacttagca tcatcctgga ctatctccaa   164400
ttcagtaact gggaacgtac ctaggataca gttacattca gtaactacat acagtctaac   164460
acaaaattt ccacctaatc tgaagaaaaa aatagtgact caaaaatcca aataggggat   164520
taattgcctg tgtctgtctc cagccacac ctaataaaa tttaagtcct acgatgccag   16.0.0
gggattttgt tttatttct ttcctgctga gtcaacaatg cttggatag tgcttgacac   164640
aaaataaagt attcaataca ttctttccag tgaattaaaa gaataaggaa tcaatgaagc   164700
ctctagaaa tttcttaaat gtaaaaaaa ttaggattc catagatagc aattgctgg   164760
ataaagagct ttaaatatgga gaataatgga tttcaggagg gcagagatgg atgtgagggc   16.4.0
tagtttat acgcagttca tcaagttca gtgattgttg ctagatctac actggatagg   16.4.0
atgtgaggaa gagaaacaca caactaagaa tatcctttga aagcattaga aagagtttag   16.4.0
gggttattct gtaaacaatg gagttcagt gaaggtttgt gagacaagaa caggattatt   165000
gaaatataat acttatatcaa tatatgatgc caagcatat aaacaatca ttaagacaa   165000
aatcaagttag aagtcagaat agacaaggac cttctgaggt tattcaataac atcccctat   165120
gttatgtgct tcatagtgct tttacctgct gaaatctgt tcatttatct atttatatat   16.1.0
tgaacatctg gaacctact aaaatgttaa ctaaactaa ttaggtaca cagacttgc   16.0.0
ctctcttgct caatatgtt ttccaagcac atagcaagt gcttgccata taatttatgt   16.0.0
taaataaatg ctttgttgaat gtattaatta gttaatatata gtgggtttta cagatgagtt   16.0.0
cacattggag ctcacccatt aatgatacga acaatcacag agaatggag aggccattca   16.0.0
gacacaaata ttgttaatga aggcaatgca ttgggatgga gctttcaagt aatggggtc   16.4.0
```

112

```
agtgaggtga tggacccctt gtgaaattgc ttcttacatt tataacacct ttctcagttt 16?549
gttaccctgt atatatttat ccgttcactc atttattatg gatctcctct caatgaagtg 16?600
taacctccaa gagagcaagc accatgcttc tttcaccttt ccactgtgtt gccaatagtg 16?600
cttcaccat atcaagtctc taatacatat ttgtgaaagg aagttattag aggaggaag 16?710
gtcaatgat aggtgtgtga atagatagat gggaaggttg gtatcaggtt ggatcatatg 16?7??
aaaattgcag tttttataag tgaaaagtca ttagttatct gctgttcctt ttgttttaat 16?8??
ttgtacttt atcttgtggg gacaatattt ctccattgcc tgaatgtggt tggttttaaa 16?900
atatcatgt tttactgttt tgtgtttatt agaaactgaa taggttcttg atsaatatgt 16?900
ctcattgttt aaaaggtag aaaaccatttg acaagcagat gaaaaagtaa tgaagaatta 16?010
ttaataaac taratttca atagtatttg agctccgtgt tctggaattt cacaatctaa 16?0??
ccactatttc aaaacaattca ttgtgtgtgc ttgcatttat ttattcccca cataacaaa 16?000
catgagtcac tatgcaacata catccaatta agtagaatgc tgaatgtgga ttttaacaac 16?000
cttgaaaatc tattcagtta gagagaaagc ccaagtgctt atcatctgtt atatgtctcc 16?660
ttgcaacagt gcaaggagag agacaccgag cagaatacac taacccaat ttatgatta 16?620
aaaaaaatag ggaattagat ctagttaatc tgcaggctga gctagatcta aaaccaggt 166380
ctgtagtctt aaccatcat tattagatgt gtctctgcc caagcaaact tctcggcagt 166440
tcttccaca aatatttttt ctacctgtga tgattaggaa tagtctgcat tttggatwaa 166500
acggtattc attgacactg gttcttaatg attaacata atcaaacatc aaatggaaaa 166560
gtttacadga gtcaggtccc tgtcctgata ctgcacacag gctactatca gatctgagca 166600
aaacattttc cctctatgg tcttgacttc ctatttgtac agtgagagtt tgaccagat 166680
gatcctaact tttcctttca gcttctaagt tgggaatcc attaatgtct gagtacctaa 166740
ctgattcggg gagaaggca caaaattcag aaaaagaaag aagagcatct atatatggt 16?8?0
catgcaagga attgaagtg aagtcatcca aatacccatc tgaccattca tccaccatc 166860
atctattaac tcatctgttt ttccaatcag cggaatattgt catgacagat ttcatgcaac 166920
ataaaattcc cacctaaaga agaatctcca catacaagga aggtttatga aagaagaac 166980
ggagtgagca ttttagatag gtccttggtg ttacagtaac accactctac ccttgaaatc 167040
agacaaaact gatttcaaat tctgtatctg ccacttagta gctgtaagat tacaacttac 167100
agaggttata taataggcag tccatgccta ttccttattt gtaaaataag gatgttaaca 167160
atccaccat catcggatgg ttgggatatt ctagttctag tacttagggt agggcacatt 167220
gtaaccaatc gatatcaagct gccgttatta ttgttgttat cgtggctttta actgttacta 167240
tgattaatga gtctccacct attatgtttt gtagtttata aagctagaga agaattggcat 167330
cgtctaccac tacattcttg caaatctggt tagtagagta ctgcaggtc ttagttcaag 167400
tcctttccag gttggagcc ctaccttcct tctgttgttc ctggctgatg tgaatgagt 167460
ggatggaatg gctaattcag ggctgtaata atgagtcttg gcaatactac atttttatct 167510
tctccacatc ccactaatca aaccacaca cactattaat gaaactctaa ccttccttgg 167560
aagagagcat actgtgggc acggcttttat catcttcaca attccagtt taattggtc 167640
tgccccttg caataggac aaaatcacca catctttgaa ttaatgcaag atgtcttgat 167700
cttactggtt tggggtcctc attttgacc cagtgatagt ttacttctt ataaatacat 167760
ttacatcata atacactag tattgacaaa attttaacca gaaacaactt ctcagcatga 167820
acaatattat gtccatttag tttatattca ctttctata tggcatagat aagtttgttt 167880
taaaatatat atatatatat attttgtttta aatgactaca gatcattgta ttgagtgcta 167940
ctgtttttta tattacaaag aaaacaatc atcacaatcat ttttgtata tattacaatt 168000
tacctagtag cacatactat tatgagtttt ctttgtaac cattattct gtcaaatcta 168060
trttttctg gtcatgtttt ctacctcac ctttttgtc atgaagttta attcttctag 168120
crtttctatc caagcaaaa tgtattttta tttgtgtt agccccattt ttaaaggctt 168180
tattgagaca tttttataa agcacacaat traccattt aaagtgtaca attaaatagt 168240
ttcaatata ttcagaaagt tatgaaacca tcaccacagt cttattttaa aattcttcat 168300
cactgctagg agaaatccct tacctattag caatgactcc ttatcatccc ctaagctcct 168360
ccaggcctag gtaaccatca atttactttc tattcgtatg tatttgcctg tttttgagcat 168420
atccatatatg tgaaatcata caatatgtgg tcatttgtaa ttgacttctt tcaattagca 168480
taaaatttc aagtttcacc catgtttaag catntatcag tacttgattc ctttttaattg 168540
ccaaacata tttcattatg agcatataccc acatttctt tatccatttt tcattcatg 168600
cacatttggg ttgtttcac ttcttggcta ttatgaataa ttgttgctata aaatattagt 168660
gtacaagatt ttcacttta tatatactac gggctggaat tactgggtta catgataact 168720
ctatgtttaa ccatttttgagg aactccaaaa ttattttcca aagtggctgc atcaccatc 168780
aaatttttaat caataacaaa ttttttccatg tgacagttg aatgatggca agttctctt 168840
aatgataact atttctacag tttattatcc tgttctgtct ttgcaatttt ccatgtttcc 168900
```

113

```
attaagaagt ggtttctagc tttttatcta taacgaattt tcaagtttta acttacttaa 168960
cttgaacatat aactggcttc agtttta.cc atgtratttt gtg.tgatta tcttttatgag 169020
caatagtaat tgaacaaagg attaatattt gt.a.tcatt tctggaataa agt.t gttag 169080
tagaaataag gcacagggtg catgaatcta aaaa.gtgac caaagcatcc tgcctaatcc 169140
at.aattctg tcttcttttc tgacctggta tccagccta gatagatccc tgccrtactc 169200
tt.cttccca tt.ttraart aacttgtctt ggcaatatt cggagtgatg acttgaaata 169260
agaagggctt agagagtad gttaatttag gccgtgtct taatggctaa atatatttatcc 169320
ttcttcagat gtatttgctt tttaaatta ggtgtctctc cagacaattt tgggtaaaga 169380
ajggtctcac cctccaaata ccatttgcaa aaatagaatt tttgacttcg gagtgaggaa 169440
agccttaac atccttgac tccaaatcc ttagtgctag agcggactta ggaatcaac 169500
tccacttaaa cctcacttut ttatacggaa acaaccagca aagggtgtg acttagcaa 169560
ggtcacacag tgaggcagca ctagactag gcctgtcacc aagggtagca ggcaatattc 169620
aggccttttc tataactcca ggtcatctct cactgaaact ttgtaggcac cctgctgtt 169680
aagaataca agaacaatac atagaacaag aatacacaca acaagggtgg ggataggcat 169740
aattacctct ctgggtgag atagaaattg catgccagtg gcttagaga cactgaaaga 169800
ccccagtaa ttacattgcc agcctccatc tgttgcaag taaccctca gtcacagcat 169860
caccaagtca gcctcttggg ttgttgtatc cttctcatct gcattttct tcttctgact 169920
taatgacctc tttaatgctt a.aactacca gctaatagta tgaaaattgc atataccatc 169980
caaataaaaa agacttgcat gttcgatag attaattgat aatcaggctt caaattacta 170040
attaattcag tttgaaacat agtcggaata tgtgtgtgt tttcttccc cttcagagga 170100
ataatgcaat tcctaagag aaaattttta gaatttctgc cacataatta gcctactgct 170160
acatagaact gacccactcc ttcggaatgt tttgtattag ggtgtaatta tagagttaga 170220
gacaagaa gggtttgaaa gattttaacaa aaggagggag ctacactttt atttttacagt 170280
tcttttctgtc cctgtcggaa tgcatgagct tcaaagtagc cagcagcatt cttttagcag 170340
attaattcgg aggaatgctt ctggggttca aatagccacc tttgaagggc tgccggaaga 170400
tagggggga ggagattgta gtttagagaa gacaacttat aggcaaggag tcaaaacaaa 170460
agagaaacaaa acaaaaacaa acaaacaaaa aaaaaaaaac cttgttttttt gtccagatgc 170520
ccttttttatc tggctctgta ttcttggaca acttctcaat cctcagtttc ctcaatcgtc 170580
aattgagac aataattcct actctaccta ctcatatgt cactgggag accaaaatatg 170640
ttgccaaatg cacaatgctt tagaaaagtta aaagtgtttct gcacaaatgg aaaattctta 170700
cttcacatat taaatccc cagtgtaca tattcacata tggtgtgtat gtacatatgc 170760
atatatatgc ttgaatatat atccatatt tatggagag atatgtatgt ttatttccat 170820
agcattggtg tgggcataag atgaacttga accatgaga aactgaaaag ccatgccatc 170880
actctacaca gatgtgctug ttcctggaa cacacaattg ctgagcctgg ctgccagttg 170940
tcctccaaac cctaacactg actgtccatt cactcctgc tctgagactg tggagattgc 171000
agacatctgg cagccagagt ccttcagagt tgtagttctt atcttttgtga ctccacagaa 171060
gcaaatctta gaccaaatga gtgtttctca aaacagaaga cctgtggacc tctgtagtgt 171120
ttctgtagag ccagttttga aaatgtggca ccaacaatg aatgcttcag tgctactgca 171180
attgccaata tgagtacta aaccatggag taaatggtca gattgttata ctggtattta 171240
gaatttact agaatgaaag cacatatttt aaaattctca tagagaacta gaagattggg 171300
agaatttaca caggttcag cagactcctg tctcaaaaat attgaatttg ttggacaaca 171360
ttgaccagtg tgaacaatat cgtgccttct agaggagtaa taacaatagt aatatcaaca 171420
atctctctca tttttatacc ctattatagt ttatgtgata tttctgtatg aatcatacta 171480
ccaggttttg gatgtcataa tactcctatg aagtaaacaa gctggaattc atcatcccca 171540
ttttacaaat gtggggaartg aggctgagac attacatact tgactgcag agagagaaga 171600
gagaaaacta attaatggag tttggttgtc aggaatacaa caaaaacaa gcatatgttg 171660
catagaaata aggtgattag gctaagctga tgttgagaca gtttggtgac tgaattagaa 171720
ttccttaaac cctaataaa ttacaacaat aattacaatt ccaataactt c.acaattga 171780
ctgatggta catttctagac actatgataa aaacttatat gcatgtaacat aaaacacttcc 171840
cratagggct tggggttgat attaccctca gatgaaaaa agaggcttca caaagutaga 171900
ctttccaca cttacaaaat atataaagtg atggactgc acttctcctc aaggtcatg 171960
gaatcccaaa attgtgtttc ttattacgt ggcatgtgag tgctggacag agagattgg 172020
ggaaagattc aggaaataga ggggttgtc ctggacaaga cagcttgagt ttaaacttg 172080
tctacagtag aagcaatagg tctgacattc caaccccagac tctcaaattc ccattggaca 172140
tgtgtctcac aattactcc atggttttagg tactcacatt ggcaatcgac gttggactga 172200
agcattcat tgttagttcc gcatttttcca aactggctct agagacacac cacagaggtc 172260
cacaggttct ctgtttttgag aaacaatcat tttgtctaag atttgcttct ggtgagtcac 172320
```

114

```
aaaagtaaga actacaacta cattgatgga attttattaa aattattatt tctaattgtaa 172380
cagaagctga ggaagagatg Acggagttug ccaattccag gtcttatctg ggtaattgag 172440
aactaggaca gttggccatt tctgccatgt ggtgtgaagat taaatgctgt agaatttag  172500
attgtaagtt ttagttctatt tggcagctat tccaagccct cagccgcatg ctgctgctcc 172560
tctgtgggat cagcccgtag cagaaactct tctttagtct ccttgttctc ctgttttgat 172620
aaaattgtca gttcctttctg caaagctgag cttaatcact tttcttagtg cctctcttcc 172680
tgttggctcc ggacctcaca gttatgttta gttctcgcag cttctcgtta ggcaggatgt 172740
atagtagttg ggaaggtggg ttttggaagc agtgctgggt ttgaattctg actttttatac 172800
ttattagtta tgttaacatta gtcaatttat ctatctttct tgagtttttg ttgctttatc 172860
tttaaaagag aaaatgatat tatgtacart cttctaggt ttttatgagaa ctaagtgaga 172920
tccctcaagg ctttcggaaa tgaaatcaa tctacctgtt ttatgtgtcc atagccccag 172980
atatttttc acttactata cttgagatta gatgactgat tctctattat ttcaatgttt 173040
cttctctgtt tatctacaag ctcctagagg aaggattgtg tgtgattat tctctgttga 173100
attctcaggg cctggcgaag tgagttgcac ataacaggtg tgctttaaaa agtcaatgaa 173160
tgaatgaatg aatgaatgaa taaatgaatt cctagaaaat aatgtgtgtca cctacatatc 173220
aaatgtactt aaaggtaaaa tcttttagca cctatgctag aagaagtaga ggtagtagga 173280
atatgaattt aattatgaat atgcaaataa gtagttaaag acaggtctaa gaggccttct 173340
aacctacttt aatgtagagag ccagaatct ctctacaacg tccccaacag aaactcaggc 173400
atcaagttca tgtttgaata atacccatg atggaaaagt cctacctctg aggcagcctc 173460
tttttcttctc aaaaggctgc gacagttct ggactcttcc tggaatatgcg cacgacctgt 173520
gtgctgctca ccctgtgtca ctctctctatc acttctgart ctaatgctct ctgcctctg 173580
caaaacttac ctgtactc ccacaaacca gcctttgatt atttgaaaat ggctacttg 173640
cttactcttt gatgtttgca cctttcattct ggacacacc ctgttcctctc aatgccttct 173700
ctcaggctat ggttcttaca gctgtctaga caacacgaa acatggatca gaccctgtcg 173760
tattcctgat actgcactgg gctcatgtaa gaaggactaa gaagcatgag gctgaacttt 173820
gtccctaggag caactgacc tttctttca gctacattag aacatgtaaa ataaatttct 173880
caaaaggatg ccagagaaaa atcacagcct gtgaaaatat ctaagtctca tagatggca 173940
cctatccttt cacagtgtgg tgatcagagg ccagtgaggc cgcctcagct gtggggtgtc 174000
tggggaaggt ccttgaggtg catctacaag gtcaagcagtc atgttagaagtg tgtcctctcc 174060
cttgtttgaa gaatccagg gatgtgagac tgaaagggtac ctatgaaact catctcacc 174120
ggctctctcat tttataaaat agacactcaa gaatgagaga aaggaggtga tcttctctgaa 174180
ttcactgaaga agttaaacag caaatgctca ctaggattg gagtattcac ttgctctctc 174240
ttttatgtctt cttttctca aactgccttt tcacaatgtg cccatatccc tctgtgtcttaa 174300
ggatggggaa ggagcagaga cagagacaga gatagagagg gagcccagaa gtgcttccta 174360
ctcccactg tgcccctctc aaggactctc tttgctgatg aagctattc cagttttctc 174420
ttcttctctc cacacagcct tccctctccc gctctgctct cacctcactg ttcaagtaaca 174480
gacactgtgt gatctccaga gctgacactg ccagagcct ttggaaggaa aaggaggtgtg 174540
ggtggataga aagacaaacc ccagatgtca aaggatgtg tcttccaagg tgatccaagc 174600
atcccagttct agtgtactct ttgtattcac ccccatcctc tgacagaatt cactccaagg 174660
acctctgaga tctttctgcct ccctccaaga aaagtaagat tctgttccca tttttataagg 174720
agaaaaatga agttcaagtt gttgaaaaac ctcttgtaaa gtcattgac taaaactgga 174780
attcaaaactt aaaacctttc ccattctaag gattaggctt gttctccatt gggccacaact 174840
gcctaaactg gagaaacttt tgcaattctt aggactggta ttataattga graaagccaa 174900
gaaataaact ccttttcttc ttaaaatgtc tggtttttaa atctggctca gctacttact 174960
agctgtttgtt ccattgcagg ccacttcttg tcttgtacc tcaagtctct caatttatgag 175020
tggaaatttt aatgtggtgt ttattagata aagataaaat gagttaagtgt atataagtt 175080
ttgaacaca gactgcaaca caagcaagtg tgctcactcc aactatgtca actaatcatg 175140
aacatttatg caaatcatat tttttttttaa gatctcaatc tttttagaa ttgctgaaaat 175200
gtttctaaaa ggaaaaaat cagcaaaaca atcttcctgc ctgtgtgatt taggttcta 175260
gttccctga ttgtcttcag ttcagagta tcaaaaaata tctctatag ccacactggc 175320
tcctcaagc ttaaggaaga gggtgttcta ttaatctaa gcactggtg tgtgtatctt 175380
tgattttgg aaaacatgca cactatctct gatttggaat ggctttttc acactggtc 175440
agtatccttt ggaccatttt agatatttaa cacagtgact atgattgctc ctacagtgca 175500
tgtaaatca ctgtcaccag cagcctttaa gcaagaggg ccccttagca ctaattttgg 175560
caaatgttg gtgagctatt taactagaag agtctgtgtcc tcgttcctt actatgcct 175620
cttttaagca cagaaaaata gagaatacaa tgggagtgaa atgtagctgc agtagacaca 175680
ggattttagg taaatactta ctatgtgcca agcactgttc tctaagaatc tgacaggtaa 175740
```

115

```
cataqttaat cctcacaaca gctatgqaqaa ataaacataat aatccttatg ttgcagcaaa 175900
ggttactgaa gcactaaaaq gttqaataqc cctcctgagg ttgaacagct agaggtggt 175960
ggagctaaga tttgaatcta gactcacatg cacaagcagt ttctgtaaca gaagcagta 175920
aacctctgtg gctctgactc taaactcaa tacaatgaata tttctctatt ggattccata 175980
ggccttctca cccaacaaaa gacaatttttt ttttttcagg cttcatagtt ttgtgtacaa 176040
acttccctg agctccaata tcaaatttaj gtccactcat tttgctatat aataattgt 176100
gtaatattag ccttctctac taaaatttag gtaaattgaa agtaaacacc acaacgttt 176160
tcttctctgc tacattcta catatagaat ggtctaaca gtgtaagca ctcatagtg 176210
aatagtaaa tggacatata aatgattac tacaatattt cttaccggt tccaataqc 176280
ttaatattt atcagtttta gattccatt cttcttttta tcaaatcttc aatggcaac 176340
tacatatatg gagcctgtt aattgtaaa ccggttttc atcacaagat ggatataata 176400
tgagtatttg cttgccttt tgaaatatg aaggttttga tcatgtaag ggtagatga 176460
attggtttta agtaacctaj gaactgtagc cataaggcgg cacctcatac caggaaatt 176520
gctcttgttc tgaaaatgcc ttggcaggt gtcattcctg accacaacag ttqggcaga 176580
gtaaagatga aggqactctc tqgaagacca actattccta ggccaggtag tacacccatg 176640
cagcttgca ctcaatacgc caacctggag tctctgacct tctgcaagaa agtgccagca 176700
ttttatccta aatcccctggg ctgagaqaaa ttagtttgtg agacctgac tgaaatttac 176760
aatgcttgt caatactgga tactgtatg aggtatgtct gttggtgtgt ttgcagatat 176820
ccaagtgtgc ctctcctgtt caaatgtaa ctggataagt caacaggaat gctgttttct 176880
tctcaatatt tatgtgtgtt tcactgattt aaqcacagct acaatacctt gttgaattag 176940
aggaaacag actacctct gtgttaccag agattatata gggagaggac acgttaaaag 177000
tttggttgtt taaagtgggt aaaataggaa aatgtgaaga ctttttatgca gagacatgg 177060
tatttgagaa cacaattaag tcttccagcc aggagtattc cacaaattca caaatatcca 177120
tattcattcg cacataccctg tgtgatcata gaattgtaga tcaaagctgg aaggaccctt 177180
aagagagaaa tcaagtggct cagaagttc caaactttt agtttgaggc tcacttttca 177240
aatggaattc tgtgggagaa ctctcatata taaaacagat aaaaacaga gctactatgg 177300
tggaaaagag agatgtggt ttaggaacac atctttctgc cttttccta acttaatatg 177360
gtaacttcta aaatgcctgc aacaggaac atagcttata aqatcattga tgtagcaaa 177420
gttcttattt tgcagatcaa tcaactaatg gctatacagg ttgagataat tgtggaagga 177480
caaacaactc atagattca aagacaggat ttagtggtt ctgctaaaa ctttttcct 177540
gaaacttctt attataqacc cggttcacaa tagactacac aaaaaagtca ataagaagac 177600
cctttttatc cacaagacaa aagctgaagc tgagtgtga caggattgaa gcttataaa 177660
aaattattag agggttgaaa gaaacttct gttccttcat tcctccatat gtattggca 177720
tgtaqcctca trcagttact gcttgcgagc gtcttgggggg caaagtgcc tcttcctcag 177780
gajctacag tctcacaggg aggatgaaaa ggggccctgc agttcaaag agaaagctag 177840
gagaggccta gagagatagg aataaagtgc tgtgtggttc acatttcaag tacacagaca 177900
cattaaagca gctaaggaa atgccctaat ctcatggaag cctgatactt cctccttggt 177960
ataaaaatgt gtggtgtct gtgtgcttca ttgcaggaca gcacataaat gaatagattg 178020
ggctcaaag ttgttaggaa gcttgatgta cagtggttag aaaacaagtc ctagagtctt 178080
ttacttgtt ggtctctatc cctcactagc tatactgtac taagcaggag ctactccatt 178140
aacttaagc tcaattttt aaatttctaa tttgctaatg ggaatgataa aaataccac 178200
tttacaagat tgctatgagg attaaattag ataacacaaa taaagtactt agacacagttt 178260
ctactaaaca gtacaggttt gatacgtgtt aggtacttgt aattattgtt ttagccaaag 178320
ttttgcctat ataaaatttg cactttatt ggctctgccc ttcgttccag aatctcagag 178380
aacaaatat ccat ccttc caaatgacaa cccttcttgg actaaaatac atcttctct 178440
tactttcttg gtcttctata cttttttagg ttataattc caattttaa aaaaatactt 178500
ctaatataag ccttttcaa caaagttc ctataactac tttctcaatg ggttgtcat 178560
ctaaagattt aatgacaat ttgggaaat ttggatgtt caactgtgc ccttcaaagt 178620
atacagtaca agttttgga tttttctc aactacctc ctgtagatct caaggaatg 178680
ggatgtaaga agtgtctttt ccagtgtcc aggattgtt taataaact tacttgcccg 178740
tttcctgaa caatttaga trtctctc cctcctgac tggtgtgtg tcaaaaagg 178800
aaggataatg aaggtcaac agtcttctg tgacccttg aaagaatcc aaagcaaagg 178860
aaatccaqct ttgaagataa agctctcat cctccgatag ctatgttcct ataaccctgc 178920
ttcattcct ctcatt ttc tttcctaccc cagtcctgt atttgaagca cttctaacac 178980
ctaaccctct ttgaaaaat gataatata atggtgaatg tgatgatcat aataatagct 179040
aacattcatt aagccttac tatgtgccag aaatggtact aagtgcttag tgttattaat 179100
tcttttaaac cgttcaaaca tcctgtgatg taggtgctat atctgcattt tgaagaccag 179160
```

116

```
agaactgaac ctcagagagg ttaagtaacc agtagacaca tataatcagt tcttttcttt 179300
ccaattgcac gtgataatta atagtcataa tgatagccca gagcctcttc aagattctta 179060
aagcattctc aaaatcttca cagcaagatg aaagtaatgtc caatgtagtt gtagtgttaa 179040
acaactcttt aggatatcat aattacttga aatgcctttt cattctaatc ctttgaaaat 174400
tataattggc atatgataga tggagtgact atattaacta gtttacttaa ttaagcgcat 174460
ttattctcaa tcattgtact caaatgcctt ttcaacattg tgttacctcc tacagtggat 174520
ataaagagga gaaagattct gttctcaact aatcctctca ccagccatat aacccttaagc 174560
cactattctc ctcttgggc ctagttttcc ctatctgaaa aatataaagg gtttgtttta 179640
cctctacag tgaatataga gaaacagcag attctattct caacaaatcc tctaactggc 174700
catataact taagcgacta ttcccatctc tgggcctcag tttccctattc tgtaaaatat 174760
gaaggctttg gtcttctctc caaaatcttt gtcctgtat aggttaaag tcagcaaact 174820
atggtccctg tgtcaaaatcc agcaatcacc tgattttata tggctcatga gctaagaatg 179940
attttttaca tttttaatt gttgggaaaa aaatcaaaag aatgatattt tataaatatg 179440
ggaactatat gacattaaat tactatgccc aaaaatattg ggaaagccat gctcttccaa 180000
ttactatatg ctaaatagta atagtaaatt actattttct atatatggct actttcatgc 180060
tgcaatggca gagctgacta gttgtgacaa gaaccatatg gtttgcaaag cctaaaatat 180120
ttataatcag gccctttaca taaaaagttt gctgacccct tgcatagatg tggaataggg 180180
ggaacctaat aggctcagga tcaactagac acttagaag catctaaaa ccttaggag 180240
gttagtgtca aggagaggaa cctaccgcag tcccatataat attgttcaa gaaagacagc 180300
tacatttaaa ggcctctgct ctggcaggt gacatatttct ggctattaac tgtgccagcc 180360
acagtctcag gttcattgtc cccttgtc tggagcaatc ttgacacaac atcctaaagc 180420
taaagtcata tgttttctca ctggtcagc agtagaacac attgtgaag aagacagatt 180480
ttatagttg accacagttt gaattcttgc ttgctgtgtg atctcaggaa aatttccaaa 180540
ggtctcttaa ccatagctcc ttaaaagaaa attaggatgg atactcactc actcatttat 180600
gcaaataagt attgggtgtc tactgtcaac atttaccctt tggaattgct taagttaatta 180660
aaggattatg tatataaagc atttaacaga atgcctgact caggaataga gcttggaaaa 180720
tgtttaaaat acatctcaaa caattattat tcttttgttt ttaaattaca gtaacctcaa 180780
aactcttaaa aagctgtttt aataaagtta tataatgcat acaaagtggc attttttagcc 180840
attattgtca tttttgttct tataagcaat gcttctgaag ccgttttcag tggagcactt 180900
aacagcacca gtgtgcttta attttaggcc aggagataaa aaattaagca cagctctctt 180960
aaaagactat aacaaactt caacaaatgc aacaacttct ctccctgtc ttgccactgc 181020
tactcgtctcc ccaacttcc agaactact ggatgatatc taagatacat taagactatc 181080
tgaggatcga tttttatttt ttaatagtat taaaaataca atatattctac attataaaac 181140
agatattaca gaaggctata aagtaaaaga taaatgccca tttttctcaa ttttatactt 181200
catagaagta actattttaa accctttttcc tgcatttggt tattaaatgg tttcctttac 181260
acttctacat catatatta tgtttctttt tcttgcttta tcaattttaa ctccatatct 181320
gacttccat taaaaagatg acaaatcagc tcatattaca cctccaacat cccccttctca 181380
atgtttgtta gctatatgc tattatttgg aattcttctg atgattacct tgtatttttt 181440
acatattgaa cctgatttt tgattcacca gcattagagc ttgtcaaaa tacagatatc 181500
cagttcctc tttagggaca ctgaatgata atccttgggg atggttattt ttcaaaagtg 181560
cctcaaggta ttctgatacg tccctcagaa ccactttctg agagcttaca gtttattggt 181620
caatttcttt gcatttaata atgacagtag acacagcatt cttttctacc aatttattag 181680
ttacatgg gtgaatgtga aatcctacat aggtgcagaa gaagcagaca agaacacagt 181740
gacctaatac cctaggaac tcactcatca ccaagcttca ctttaggtga gaaacagtca 181800
ctcaagaga agcatctggt accagtgctg ggaggtcagt ggaagagag tggtttaga 181860
cctgcttct tgtgctgaat ggctggaaaa acacttgact aacctaaaa acaagtactc 181920
tgtagcttaa tttcatttt ttttgtcag tagtaacagt atatagca atgtccag 181980
catttggaa catgttgaa ataggcagag tggctcaaaa agagtagtaa tcaaacttcg 182040
taguttaaaat tttttaacaga atataattag caatgtagta ttttatata atactatata 182100
attaataca caaataaagc acataaagaa aaatgttcta attaccaaat attaccctct 182160
aaggtttttt ttaataaaat gataaagaaa attagaaat tattttaatta aacttattt 182220
aatgagagtt cccaggtgaa cagaatgagt gaattgaatt ttccaataaa caatgggca 182280
aagagttaac acttttattt cccccttctt agtaaagaac acagttgtgc aggttcattt 182340
tcttgaatta tggagaaatt tagtctagta actataatag agtcatttct tagtgattaa 182400
aaggattgta gagatgtaag attattattc ccagcatgaa actgaaata ggaggaaga 182460
tgtcagctat tagatgagaa tatagttcat gaccacaagt tattttctaa ttttgtttct 182520
ttacttaac atcatagcta tgagcttgtt ttatcattct ctgtccattt tttcttagga 182580
```

117

```
ggggatgggg gttcagttag ggagtcttat tagtttgatc ataagtaatt aaggtttggc 182640
tgcactaaaa ttttttgtca acattctggt gacaagattg agtggccttt atgttgagca 18.....
gttgaggaaa ctcggccatt tcctttggcc tccattatgt ctgagatnga agcagtcagt 18.....
atgaaatgcc cacgacttg ttacagattt tcaagagaca gaatttgtct gcagaagata 18.....
ctttccattt caatctncta gtagttactt tatgaacatg ttctttttaa agtctctaag 18...
aagtatatga aatcttncta ctatgcncta gcttttaacc aatgctngg taagtgctct 182440
cttagatgtt ataacgtgta ggatgnata ttgggtacag gaacctnttt ctgatttcat 18.....
ctttacttat tgcttgtgt aatcatttg caaatcagct acatctntga aactgtaaac 183....
tctggggtng gaacacgtta aactcaaaag gtattttcaa ctgacttc tcttttcaac 18.....
caattacaat cacccactgg tatttgttgt ctgctggtca tattntctct ggataattgg 183.....
cttttcttt tgagaaaagt ctctggttt tatttgttca ctcaacnaat atatactgtg 183....
cacctactct gtgccaagca ttgctctagg agcaggttct aggacanatc agtgaccaag 18....
acaaaaaagg ttnctgctct taggaaactg acatttcaat agtagtgaag aggtgatgg 18....
aacacatgag taaacaagat aatctcaaat ggtgataaaa actctgtaga agtctctaaca 18.....
ggcactgag atagagcata ctggataggg tgctggggt aactctacta tgttcttcca 18....
gaagcagttc cctgaaacaa gtattcaagt acaaggggct ttttggtgc caatcctaaa 18....
aaaccaggaa aggtaggcag agtaggtaag tctgcctaca aagtttcata aacaagatgc 18.....
ctacactgta ggttactgta ggagaanat ncctgaggg atcccaacat gtcagtgtag 18....
aactcacctc atggtcatgc catgcagggg agaggattct ggggcattta tctactgact 18.....
cttcatctgt cattgattga aatctgcttc tgggcatatt aactccttaa catgtctaac 18.....
ttagctgca ggtaggcgga gtagncagt gtttgcagtt gataccaaaa gtagaatacc 18.....
catgtagaaa ggttagttgta agtgaccgta atgctgagat tgtctacaac agggcaagaa 18.....
ctagttcttt agataagaag tcaggaaaca cctctctgag agatgcagat ctagntgaga 18....
tccaaaaaat gaaaaggagc cagacaggga aatcacattt ctagtcnag agaatatcaa 184...
ggacaaaagc tgtgagtgtg actaagcttg cttgtttat aaaaatagaa acaataaaaa 184...
atcgcagaac tttagagcta taggtgtggg ggagggttgt ttttgaatca taaagtctat 184...
tcttttagat agaaaaatca gagaaagcca atgagaaatt cagaaacata gacggtatcc 184...
taggatcca aaaggggct gggacngctg ctctaattcc ttggctccca gttcagaact 184....
ttctcatcga ccatggatcc nctgctcatt ttcccattc attnatngga atttggtggt 1843...
ttccccaag ccatggatct gaaacttaat tgcctgtatg atccccatca aattccttgg 1844...
gcagtttcc aagatacgat caatcgata tgagtggaag atctgnatgt gacttctgaa 18444...
aaaagtttt cataaagaag tngtncattc catttttttt cttcctgctg ggcaggccc 18450..
caattatcc taaaagaaac cnagntaac acaaggctct atgtgacnag ctttggctg 18456..
ncaatttgac ctnctttcc accctctc ttcaacctca ntgtgnaaca atacaccag 1846...
cctcttact cttttcttgaa tatgccaatc atcctctcac ctctgggcct ttgctcagaa 1846...
tgctcttctc caaatatcc aatagntcag acacaggcat cacttcantc aggtcccctaa 1847...
gccaagacca ctccttcg gaggctcatc ctcatcatc cttcaaagc atgacactgc 1848...
cctccccat cctcttcct cacttcatcc ttcatggggc tcattgctac cgcagagtat 18490...
actatccag atctactat actatnctgc atatttactt gttcatttat tgtctgtctt 18493...
cccactaga atataagtc ataagagaa gaaacttgct ttattcacta ttagaatagt 18448...
gcactatgac ttttcnaaaa tgtttnttga aatgattaat cagtcaataa gtgagtgagt 18504...
gactgagtca accaatngct aacagnggcc cttagttctg gtgctctctc tgttactaac 1851...
tccctaaatg acgcctctgc aagttgattc ttctactctg cctcantttc ttatctggc 18516...
aaaagacaat ataatgttta cttaaaaaa ggataaactg aaatgaggcc atagatatga 1852...
aagtactgca cattattgaa tatntatac aaatgtaaga ttccttta cantcgaagc 1852...
cttctcagt ttaagtaaac ttcacnaat ggggtggaaa atgtcatat aataaacaat 1853....
ncttcatggt tgcttggaatt gatncggcct catggagtgg tgtaantta ccttgtngta 1854...
tggaaagag nacaggatga ggatgntgac tgagatcaga antcgncttc ttccacagac 1854...
ttgntggtgt ncttggtaa ctctatggag nttgcccagt gaaatnaga ttcctcttct 18550..
ctcaaaatgg ttggtattg cgatggtaga cgagattatt ncctncttag agtttctac 18556...
ctttnartat atatctgcat natgataata atncagcca ctattnattg atnacttggt 18561...
ctgcccatg cnctgacat ntgtcattgc attgtatgtt tannnaaca acaagacctc 18570..
cattattcag ataagaaaac tgtcaagtaa cttagntaat agntntataa ctactggctt 1857....
atgcatngca gtgccacgca tncaagttca aggaaaggag ggctaactgt ctctccattg 1858....
gtgcaaaaac taaataataa tcaagttcaa aaatcctgtg gtttttggaac aggttaagtt 18.....
agtagtttc atctngtgga actgaatgga aaatcctgtg gtttntggaac ggcttcatgg 186000
gatttatcca ggcagcatgt tctaactttct cctcctccc cctctcacag ggcttcatgg 186000
```

118

```
acattgactt aaacaaattc aangagagtg gcgrcaatgt gacrngtttc ragctagtga 18____0
actacacrga cactattccg gcrnagatca trcagcaatg gaararagt gatrgctrgag 18____0
accacacrcg ggtgrcrttgg aagagacrca arjtgarg rg atgrgacaca agcagcaaag 18____1
ggccagrgtg gtcrrttgc ctaccoraga ttcrtgarr gcattagtct ttacraagga 18___40
atcagtttt taaaarcaaa aaattgactgg aaatatatt gtaaagatta rtagrtacaa 18____0
ggtgcagrgr tcagrtracc rararatgaca tgrtttarg gagrgagaca rtttrattat 18____4
ctctrctrcr aacarurtt agragtrago agtrcortrr ttgtaaaatg gctcracagt 18___10
tatcaaarar ccagrcrrct tgtacrttct tgrtrtrrr tcarcracat acggrtrctg 1464_0
cctaatatra caaagrgrct gcrtaaacta cagrcattrc rtcagcaatc tacccagrtag 18____0
gaagacaaar aaaartrraa rgracanctt cttratraag aactntattc agaagucaca 18____0
agcagatrtt ccattcarat gctattrarc gtatcrtrgr aaartacrcc cagttrgctg 18____0
caaggcaarc tggaraaatag tgrttctatt crgrgrcraag crarcatgtt gcccagrtra 186720
ggaggatgct catttcattg ragattgagc trctttatrt agtrgagtag cccttrattct 186750
gctcagccat gtrrccagct aaaaatragg gcaacraac taaggaatat ccagcagatc 186640
tctarctggg agagtrcact rtragtaatc aagcaaartc tctrcttctc acttccrarc 186900
aacacagrtc taaatactga cancaaaatc tattrtgrtt gttatttrag aatgrcttgg 186960
aataaggataa gcraargtra ctttttrtga agtrcaacna gatagctrga cagtrgccat 187___
atggaacrct grrtrgarra gratcctaag rcraaartta tttatctgra caaacagtga 187090
atctttgaca garttrtrct trrcactcaa rtcartttrt ttrataaatg gcaaarctra 1872_0
taacgragat acrtrttatr rcartattca aartgatrta actrttcaat aatgaagact 18_200
tattttcaata trartttaag caaacanaat rtcaaartg rtttcaagca atgagaaaac 187_60
tacataggaa ttaattaagt aatgtgraat gattgrartc caatttccaa aagactgagc 187320
agatgrcaaa aatraarcaaa ttrtaatttaa tttrttrttt ttrrttgaga tgraagtctgg 187360
ctctgttgcc cagrctggag tgrcagtggca trratctrgac tcactgcaag ctccacctcc 187440
cgagttcaag ccattrcct gcctcagcct ccraagrarc tgrgactaca ggcaccrgcc 187500
accacgtctg gctaattttt tgtatttttt agtagagatg ggrtttcacc gtrttagcca 187560
ggatggtctt gatrtctga cttgtgatc cacrcatctc agcctcccaa agtgctggga 18762_
ttacagrcgt gagrractgc gccrggcatg taattraact ttttaaaaaa gaagtgagag 187650
aattaaattt aaaaartrag aaaaataccc attrattrgt tcttcaattc tctattgtga 187740
acttggagtg tgrraggcaa cataataagt attarracra aattagtgaa gaaaacagac 187800
atangtttca aagcragcat atatttrct ggartrrtct cctgattttg tttcatccac 187360
atccractcc crrttttctc argagaggt ataattgata gtrtgttgtga gaacgratga 187_2_
ggggaaagtt tararggatat aaactracca cttarjtaac ccatatrtgg aaaaaattag 18__40
gagctcaccc ttcrttcart ttcttttgc tttrtrrrt acaaragatg aaagartraa 19__40
tagttcctct tgrrttrrag ctaatgactg taatgrraag ataaccagc tgattttca 198100
tgaactrrat cracrctrca gatgtrttat atgraatcta tgrattttt cccaaatgaa 1_8160
ccaarattt aaaaattgca agattgcaca cagaaarcta gaatcctggc ttrtcttcaa 188120
aaattataac tgrragtact gaagtcacag trcaagraaa tcagcattga ctagcatggt 188230
caagcagrag raccaratct cttgaatatt tatgrttttr aggacacca tccctgattc 1883_0
accagtgtct rcrrcarta taccatgcat ctgrcrract gcaacrcctt ctcatcacca 188400
gaaaacarat trrrraatac agcaccaaa cctgrrrtcc tgrcagctct ctttgatacc 188460
taactgrctc cattrctrcc actagracac ctctgrtrtc accracgatg grgtgaaggt 18830__
gatggctgag grtttrcaga cctgrggag gcagagaatt gatatatctc gcrgrgggaa 188590
tgctgggtat trtrtagrta accagctgt trccttrjgh caangatcc acatccagag 188640
agctctgtag tarrtaaarar cacraatgtt tgrcrratct gatagragcr tactggagga 188700
tttaagcatc aaattccaat aaaacacagc tattctaaar aaaaggaaga aaatucrtga 188760
agtrcagrac rarcartrca rtgttgtgt trtrrrtct tagratacar tgaarcrcat 18____0
ataaataaaa aarcatatgr rtcagtcatt ttttgragto taaaagctgt arttrctct 18___40
tagraatttr grrraaaag ragagctggt grttrctgt rtatgrraaa grgagttgaa 1_8_40
atacacaagg arrrarctga arcatgttaa trrtrrrtg caaacactcc crtcttrcc 18__40
tgattttgtr grtttrttc ttgctctct grararattg tatgagagcr trgggttatgt 1_8060
ggarcctaaa aatgttrtrr artactttg ataccrrrt crtgcttctc agcattccat 1_9120
tcattcaatta trtttrcart taagaatagt taarrggrag grararaaaa tggrcagcc 1_____0
aacrcrrcr aatrrgctrt acnaaaagct ctrrgrctga atrcagatac aacanagaga 1__8_0
aggataaata ttcaattagr gatatgtctr ctrtrgagc agcatgagac artgrtacat 1__8_0
gtrggtgtat attraacatr cctrgttrat ragatttrgg rrrcttgcrc trrgttttat 1____0
tgctcttggg gctcctgtag atctrtaaag cacrtcaagc ccagrctatg attctcaaac 1_8420
```

119

```
tgcoaagaaa tagcaatata ttttttgttct gatgcctcct gctagagaag ctgtatttcc 18   )
gaaagacag ggagacatg gcgttcttg ctgcaaita ataacaaagc attggccaca 18    6
atgacaacc agcacacac gattatttgg cacaacptc cctcagccc cacctcccc 18
aacaaatga gttgcctgcc taagacagc tttacttta agacacatt cagcacaaga 18
tgagtctggt ctccttggt agaagtgga catttctgaa tgagacaaaa atgtacagca 18
aaat tacaa ctatt acac ttgtttcgaa accacactg cacacctca gcaacttca 18
caa aggct aaaganatgc tgaaggaag cacaatt ttcctcagcc ctgatgatgtg 18 640
cct ttctgta cagaaaacata tgtaguctg ttctttaa tgaattcag cagtttct 189900
actactaca tgaggaacat gctaacagg acctcccacc gccatttctg cctcccta 18
gtactatgc aggttctc ccaagtcact agcagcaac aacagcacc aggcccttg 14660
caggggaaaa ttgccaaatg gacagtgcct gcgctccc ttctaccc acctacctt 140060
atttcaaatg ctcttcaga ctccacagtc gacacagatt ctgtttgaa tgtgagctg 1 140
gttttaaaag gtcccacaga tttgtcctca gcttacaac cctttcaact ccctttcctc 190200
tccatctta atgacgtcct gaaaggatag tctgatatca ccatgacagt gatgaacct 190260
gggaggagt tcaggtgcc aggaagact ctgtactggg aggcaggaga gctggactcc 190320
acgtccagct gggccctgg ctcttggat gacctgaaa cattcactta gctctcctgc 190380
tgcctttcct ttccttccc atgaaaatga agggtgaa gagaggacct caagtctcaa 190440
ctggctttga aaatttcaac agtcttattt tttctcat ggtctaaccc atgtccttct 190
ggtttagtg tatacttagc acactgctc tgctctcut agggtttgaa aggaaacgt 140560
ttccatagtc aaaagacaa tgactctt tatttttct tggagccaag atatatgtgt 14060
gcct gcctt catcagtgt tcttgagga tctatgtgt gcctgcctt ggacccaagc 14060
actgaggaca ataaaagaaa gcaaggctg cgctcagga actcctggca gtgttatgg 190740
agaaaaagag aggaacaact atgcaaata aataaataaa taaacaaaca aacaaacaa 190800
ccagaacatt ctgacttaa gatcagaggt tcaatcgat tcattttcca atctttgtta 190860
agcacctaga atgaaaaaga ttttgttgaa aacacctta gagattactg actctttttt 190920
tcctcacctt tataatgaaa cagcaaatcc aaagtaggca gtgactcacc cagggtcaca 190980
cagcagctta gttacagagg ctggaccaga tccaagtcca gggctcctct tccccagtt 191040
aggtctgtgc tatgggccca gggcccttg cttataagca ttgacctgtg gagccttcca 191100
tccatagtca ggactacct tcagcaatgg ctttttag acccatctct tgaaatagcc 191160
atgcccaag ggaggtggg aaatcctgat gctatcagt cttagaaacc tgacgcttgg 141
aggctcaggt ctctactgcc ttcacctctg gcttcaggt cacatagtgg gagagaacct 191280
gtgattagc ttgtgtaga cctacattgt ctatagtta ggccaagagg tccagcacag 191340
cctacctga cggcaagcat gctagggatt taaattctga aaataatgtg tatggtggt 191   
taaaggttta gtatacacaa agctctaaac attacata attatatcat tggatctttg 191460
ataaacacc ttgaggtagg tagttttatt aacggtggtt tgtaaatgga gaagcagc 191520
ttcagacagg ttataaaact tcccaaagtt atacagtag ctagtggtaa agttgttact 191580
ctaaacaca tttagatgat gcctcctct gtatgctca ctgctctgaa acctcaagg 191640
cacggtcaaa caaggagac acaagagcta tggccagcc ccagcagca catggccttg 191700
ggtaatatct gtgcacccc tccccttca ctccgttgta atttccctag cagaagaatg 191760
aagataatca gctgctgcc tgccccctgc ttgccatcta gggagtcatt cagaatatta 191820
atgaacncac atcctggag cctcagcac tctaggaagg atgctcatat gtctgccttct 191880
ggaccgtgga gaagactcaa ctccccaagt ctgttctta acatagggga ggtaataggc 191940
atttgagaat atgattttt aaaagaaatc tttagattct ttgcttaga aaaatgcata 192000
tgtgtacata cataattttt gcatgaccag aactagagag aacatacata ctcctagaat 192060
gcatcccagg gcctcaaatt tagaatact ccctaata gtaatcatcc ctcttagtct 192120
ttgtttttgc aatgtgaa acaacaatca agcatatgga agtgaaggta tgcttcaaac 192170
tttataaat gggatctgag gttgggtggg aatctagtt taagacgcag tcttccttt 14 210
aagtgctaac acaggtgggg ttatagtgct atacaaatc ctggcctttc aataggatga 140300
aggaattag acatacgaa tgctttctgt actaatgcta ctagagtga aaggaaaac 14360
ccacttnatt at caaaatc tatcatcca attttacac ttaggagtca aaggcatt 14 440
tactataat tattccagaa gaagagtacc agacccctcc tgcgttagtc catggcatt 1   0
gttataaga aatacctgaa actggatac tataaagaa aaagtttatca tttagctaa 141940
tagtttgta gggtcgcacc gaagtatact gcccacatct atttttggtg agggcctcag 192600
gaaggctcca atcatgcaca attgtaaaag cagatacca atgtcagtca gtaagagaag 192660
gacagtgata gatcaaggag gaagtgacag gctctttac acaaacagct cctatgagaa 140720
ctgagtaaga attattcat tacaatgggg aggtaccaa gccattcagg aaagttccgc 14 730
ccccatgatg caaaaacctcc ccaccaggca ccacctccaa cgtccaggt cctattttaa 140440
```

120

```
catgagactt ggaagggaca aatatccaaa ctatatra g tccaggraa actgagat g 19  00
gtggttaatgg aaccgttaaa tgtatggtaa atttgaa at ggagtaratt ggcttttgta 19  60
ggttcrgtatg ggggtgtca atgatacca gcaagar ng aggtaggttg aggttaca g 1     
aaagugtcgta cacatgtaca attggcgtgtt taaggaatta gggatagaag agctagattca 1 0 0
caa ott g  tccagcaga actatatggg ggatrt gaa ctaattgttt gctttrra a 19 140
gat ragtt  ttttcctgtctgt ggtaaaraja catart tc ctagtgcrgc ct rctgart 1 0
ggcttttaa aggggctraga attttaagaa agcatcttg ttgtggcra agrargttg 1  0
trata  ttg taatccaggc actttggag g ttaggt g gcatataca agttagag 1 3 00
tttgatanca acctggccaa catagtgaaa  ctatr tt actaaaaata caaaaagtta 1  0
gcrgat tg tagcaggcag ctataattcc a ctactgg gaggctggaa cagagaatc 19 440
act tgaagc aggaggcaga ggttacagtg agcrajagtt gtgrractgc atarrarare 19 00
agrctgrgtg araagtgtgag actatgt aa aaaaaaaaaa aaagcattat gcattgttt 19 560
cttrgaactt caggaagct gcatcaagaca gtcagagcra agattattct tccatgct 19 620
caggtatraa agtgaagctt aggagrattc tgagattgc tctggcaga gtarttagaa 19 680
tgtraccag caaggactta gtrtacaggc gtcacagcca gtgagcatcc aggargaagg 19 740
atcrcatctga gggcaagtgc aaggggata caggagccct gcgtrcagtt tgactgctag 19 800
gctgtctcct tcaggactca ctttcatgat rcaatgagg caggggagag cagtcactgt 19 860
tgacactta caaagattt tgtttgacg aaactttatt cagccttctg aacctttc 19 920
taqcrarc tgtgraattc rttgtgaata raatttgc aaagaacttg ctaagtcggt 19 960
ttrqaagaa cctgtccac cagtctar ctcttttgca tgatcatctt cttcaaccc 194040
cacatccc cagattatgt ccgtatcatcc tcgtccatct tcagcaagaa trctcttagg 194100
ccatttago cagaattcct cttaaccrcg atgcttgrtg ttagcaattt gctatccact 194160
gar crcact ctgctcctg gctatatatt cccacaggcc catgctrrtat tcagagttga 194220
gcccaatctc tctccacctc tgcaagacc attgcagrjggg trtctatacc tattgctacg 194280
attctgaata aagtcttctt cactgtgctt taacaagtgt gctgattaat tttttcttta 194340
acacagtgja agtaatagag acattaacc gcattctctc agcaccaagc agaaaggaa 194400
atatatgrtt cagcctcca ttagcagag actrtgagct ggcarccagt acctttaca 194460
graaacccaa ggttaattct cratctttca tggaggragt tgaggrgcc agaatgggga 194520
caaagttcc gggagcagga accaaggaga agtgcrtggg ctccatcaat ctgacctrag 194560
atacrctggg ataggggag aaagggataa gtgcccagat cccanagctc aagacctgatg 194640
gatrrcggcra gtggtttcaa gatacacatt tctgaaaagc ttcttccct gtctctggagt 194700
crtgacttc gttgacaaat gcttggugg tgagccatc tttcaactc tccttgctct 194760
gcrat catgc aatggtgttt craggtatgtc rttttcgrat tctctcatat ttttctttat 194820
ctcaagtgcaa gtaagacttg gcttrccaa ctatatacta aragccttca gttacccttg 194880
acctctcaat gacttactgt gaatc tgga gtcaagcgcc atcagctcng agtcrcaata 194940
atcrratctg tgaaacaggc aaaataargt ctgctctgggc tactcactgt gtttctgtga 19  000
acatgaaata agcagctct tgtgagatca ccgttacagt gcaagggtc rttgggtcac 195060
tagaactgtg caggtaggac ccttgarctt attggaaact gaggaaggca ataaagtgt 195120
aagtgcatg atccttcttt cttctgaaag agtccccttg tcttagagaa cctaccagcc 195180
ctaaggcctc aatttttagat tttatttttc ataacttttta cccatcctac acagcacagt 195240
agtagragtc gtcattatca tccattattat catctraaata atataaaacta tgcattgaaa 195300
accttatgtcc cagacaatgt gctaagtact tcttrgagga ggaaactaag aagcagatag 195360
tttttaggaag gaacctatgg trataragt agaatgagca gagcagaacc tgggaaatgc 195420
ccaacagaa tagcagaaag cagttagaaa acactacatt gcacatttt gtgtttgtcct 195480
crttaagct agcacaatag racttgcctt tgtttcrtgcg aacacttgt acttaagtg 195540
aaatatacag aagttaccag argctccaga tttttgacc gctrtgrcca atggttagtc 195600
atagaagttg agcagatcac tttattcc agaattrgcc atrrccatg raaataaaga 195660
traatatctc tagaatgrat acttcagggg gttcctrtga ctagagatgn aataatatgt 195720
gtggaagtgt gtcataaaca taagtctttt agaaaataat attattatta agtatcacca 195780
trarraacaa taataataat agctgraatt tttgaaatac tcatcatgra ccagcrattg 195840
atcanaaaat atctcttta attcttagaa aaacttaag aratagttaa crctaattgg 1    00
rcrrattaaa caaatgagaa acttagcat agattrtta trracctgco cacacraata 1  0 0
tgccratgctg attattagta tgaaaattga racttgrggct gaaaagtaga tgcctttttg 1  0  0
catartaat gacactttca tttgggcra atcagctac cagtgtacga trtgcrcatc 1    
tattccaagtc tgttttcttg gaatgagtca cttcatgggt acracaaa ctaarrctat 1 0140
tatrcaagtc tgtttctttg gaatgagtca cttcatggt acracaaa ctaarrctat 1  000
cttgaactgg aaataaggga acactaaaa ttgraagag attactgagg t ataagaa  1 0 00
gtgaagctgc tgatggactg gaattgctcc tttttttat tctttgtagt agaatctgta 196 60
```

121

```
ctttgttttc tctctgaaaa gcaaagatag ccaagaaatt tatggagctg gggatttctc 19....
ctgatttcat ctaagaaagt aaaacagcctg ttttaaaatt tgctcagtgc tctgggcctg 19....
ttgtgacctc ctcactgata ctttaaacca gatggtgaca agaggtgtta cctgcaaaca 19.44.
ggaacaaaca cacatgcaaa cacacacgca tttctctctct cactccaaa cacacaaac 19....
ccaaactct tcttatatct tcctacacaa gatgaataag ccactgtcag aaaaatat 19....
aaaactctctgc aaaggttcct tttaagcat ttgaattagg gaaataaaa gtgctgtgtc 19....
acaggggttgg attttatatt gtaaaaagtta gataacctgac ctcattgcc ttaggcaaga 19....
gggatctgtg gacacatgt ggatacttat tatgaattgt ggttgcttat actgagctg 19....
atgatacaca gctacaactca gactcagtct gaagtcgtc ttgaatgaca tttatccgtc 19....
acctacagag cagcaagctc aacttaaatt atcttggatc tctatgttca ccatttgact 19....
tttgatatga atttgaaaat agaagtttct caaagttga ttttgtcat ttgtggagaa 19....
gtctcacgcg gcatatttga ggggttccaat acaattttat tttagcaac tgagatttct 19....
ttaacacctt gcattctctt atttgaacac aatgggttct cctagatgc tttgaagttt 19701.
tcacaccatt ttcacattag cagttatcat ttaagataaa aaagggaag agattttgg 197100
aaactgaaag cttagagagc taaattgcct gaggggcact tgctattaag gattaagctg 197160
gggttaaatc caagtctttt aattgctaag tatttattc cttggaatca ggaatataga 19722.
agaaattctt aaaggaatta agaaggcatc tcaagcata gcttaatgct tcattcataa 197.20
acctgactc ttgttctatga ttttctact cattagtgat ggttcatcct tttctttcct 197340
ttgaaggctc cccatacttt cttatttttc agatgtaat ctagaaaatg cagtggtcat 1.7...
agtgcttgt tgatgggatg tgtttgttta gggatgatgc agaacattca cattagtatg 1.7...
cactctgacc cattgttagt atttgcaata aaaaaataggt aaaaacaatt gtcaggattca 197500
attccaattt aggggaaaag gatctataat gcatccctg cctgtga gggagtgaag 197580
agttttagca ttcaggataa tctaagaaat cattccatgg aacactcttg ggttctgaat 197640
tttctacttca gtggaaaaag caaaacacaca taaagtacat ctgagttcac tgccaccac 197700
ttggttttgt ttttcaggtg cgatttaaag gttcaacagg aaacgtgaca tttaatgaga 197760
aaggacgccg gacccaactac acttccaag tgatttaaat gaaaacatcac ggcatccgaa 197820
aggtaaagtc ccccctttact ttcgttgtgc aaagataaga ggttgagtaj ggatcctggc 197880
cagagtgcgag gggctgtgag tccacctttt ctggactgga tctttgaaaa aactcagaca 197940
acacagattc tagacttggc tctgcaacta accaactggg acatttggaa agtctcgttc 198000
ttcctctgag aatccattca ttcattgca aaataagtt taaaaaatc tctacatttg 198060
ttccaggatg cttgtgaaaa tcttaaggatg aggaaagcac ttctaaaaca taaagtaatt 1.81..
gatgtgtata aaatgcaatt cccatttcctg agggttctta aatttaaaac ttgaqaatga 1.81...
tcattattga tgaggttaac tatctcttc taatttgatag tttgtatatat ccaactatt 1.5.1.
atttatacaa aagtaaggtt caaaaatatt attttacat atttgtataa tgtatatat 19..00
gcttgcatat caaaaattctt agaatagcat ttaaaatcctt ggaataaacat ttcgaatttct 19..60
aacagagcct acgtgccctg gccctgccg attttcttac cttaaccct tgataacttcc 198410
ttcatctttc cactccagtc attctctttg tcttcacct cccggaataa accatgttct 198480
ttctcatcat tgagccttca tacaatttttc ctctctctgg gacttccctc ccccatctcc 198540
ctccctttgc ctgcaatcc ctcctcagcc ttccacactc aaagtaaatg tcattccca 198600
ttgaagcct ctctgccctt ttttattatg cttcatggaa gctctctactt ctctctcat 198660
ggcctccatc acattgctaa ttccatttgg tggcgtagca taaaaactg gagggcattgt 198720
acacagatgg gtgagatgg taggggacca tggatcagaa tgctgacact ggaatcctca 198780
acactgaatc ctggcttcac cacttattac tctggggttc cggataattt atttgagctc 198840
ttgttcctt aattctctta tctaggaagt gggatcacc ttaaccatgc caacctcata 198900
aggtcattga gagattaaa ttattcaaga attgtcagaa gttcraagta ctggaactgg 19..60
ccattgaaa gttgggtctt aatctctcag actcatgct ctctatcct gtgcgtcag 1...0.
attaacttgc cattagcgt atgtcctgt ttcaaattgaa tttaaataa attccatt 1...60
aaaaataggt tcttcagttg cactatctaa atgtcaagtg ccaataagcc acattggct 19..1.
agtgggtact acatcaggca gcacagatg* agaacattta catcactgca gaaaattcta 19....
ctttaaagtt ctctttgtcc accccggtc ctcaatcct ttaacctgt cttctctgct 19..1.
cttatctcta gaacccatcc ttctaactca caggcaatct tatctttattc attaaggcta 19....
tgtcaattgt ctcttactgc tgtataaaatt actacaaaca gtcaaccaaa acaacacaga 1.4.9
ttttatatct cacaattctg taggtcagaa atcctatatt agtttcactg gacccaaaatc 1...40
aaaatgtgg caaggtcatg tctcttcctg gagcctccaj agttagttca gtctcttgc 1.4...0
cttttccagt ttcttaaagg ccaactatat tcttggctc ccatcgtacc aagttttctc 1...60
catattcaaa aacacaaatg ttacctctct cttacccttc ttctatcatc aaatctttct 1....0
gctaaccaca gtcttccaga gccccatctcc cacttctgac tgggagatct cctccttcag 19....0
```

122

```
gaatcagcta cagtaacctg ccttgactta cagcaggtac caaataaggg caccctattt 1????
ggctatgaat gtagccactg ggaacctatc cacttcttca gcaaacttt gg atgttga 1?????
ttgtacacag acact tttc tgggctcaaa aacccttgag aatgacatit at cagaaat 1?????
agtgcaagtc tgagttcatt tttgttgtcc catgottttc tgatttttc tgttgttgaaa 1????
gacatttgct agatcactta gcttctatca cttcattt ccacattit aaaacggga 1?????
cagatcatgt ctccattagc gcctgatcac tgttactca atgttacig tgttagtgt ?00???
tattaatagc tatactaat gttaaggatt tagcactac tgttaagatt ac cctctg ?00???
aggtggcttg tt attttct tcaaacatt tacagctac tgttaactcag attctttttt ?00???
gaaggggacac caaat gtg acatctctcc caaagccatc ttccttcag gccccccgag ?00???
tgttttttttg gaaacagac cttgctctgt cgttcagact ggaatacact ggcatagtct ?00???
cggctcactg gatctccac ctcccgatt caagtgattc tcctgcctca ggctcccgag ?00???
tggttgggat tatatggcc catacccaca cctggctaat ttttgtattt tgtgtagaca ?00???
cgggttttct caccatgttg ccaggctag tctcaaactc ctgaccgtgt gatccattca ?00???
cctccgcctc ccaaagtgct gagattacag gtatgagcca ccaccccag gcttttttt ?00???
ctttcttttct ttttttttg aggcaggtc tcgctctctt gcccaggctg gagtgcagtg ?00???
gtactatcat agctgactat aacctcaaac tcctggctc aagtgatcca ccacctcag ?00???
cctcccaaag tgttggatt acaggcatga gccactgtcc ccaccccctt tctttcagat ?00???
tctgagaaac gttgttatta cctcctcttc ttcaaataa aaatatgatg cacccatttt ?00???
gttgtaaggcc caagcaggca agcctattgc t ctacatag aaaattgttg acaatacacc ?00???
tgggctttt ctcaggatcc tcagaatggc ctttcgctct caggcaaaaa agaatattgc ?00???
tatttcttgg atagaacaaa ttggcatttc tacatttgtat atgaacatt atctctttgc ?00???
cataattaaa atatggatgt cgaactgttt tcccaactc tgtagtagtg gattagctta ?00???
aaatatagcc agattatttt ctacacgtta gtggtcactg ggtacattag ttatatactg ?00???
aaggtgcaac aagtaagaat agaagccaga gacttctatg ccatttctgc catcatccag ?00???
ctgtgtggcc ttcaggatgt ctccatagtct ctctggggtct ctaaaataag ttgagagacat ?00???
tgggctgtgc aaaacttaat tccttctcagc tcttgacacct tggatcgttcag ttcccatctgc ?00???
tgcatttttta ccatctctc cctactcaca tcgttcctct cctggctaga cttccggcttc ?00???
ctctgtgaaa gtagaattc cactggggcc ttcatcaatt gacaaactgt ccttgggtat ?00???
gaaatttccc agttgttact ccagagaaca gaggcccag ccttcgcgt tcaccctaac ?00???
tattgccccag aatgtgttgg gaggcttttt atctctttcaa gacttgctct tcatcaagaa ?00???
cttctcagaa gtctaggcac tgtagtaaga ttaatggttc tcaagcctca gtaaatagaa ?00???
gaattactgg gcgcttat ttaaaactca gattcctggg t c agccc tgttactct ?00???
gcttcttgag aacagagatg aagcctagga act gcacct tcttaactcc t ct ctccaa ?00???
cccacagatt tttgttggg ttcgtaaaga gtttgataag catcactgtc aactactaaa ?00???
caaagaagat gaaagtaaaa ggaatacaaa taatataata taatataata taatctataa ?01???
tataatttac aaaaaaagaa acacttacag gtgggctaag agttggatg ttaaatgcag ?01???
acagacagg atttcaagtc tgcttagtc cttactaggc acatgacctt gaaacacatta ?01???
tttagctcc ctgtaagtca ttacatcatc tctagaaaggg tggtaatact cttggcctctc ?01???
caggatcact ctcaggattg aataagacaa tgcctgttac accactgctt atagtaaggg ?02???
attcggaaat gtagctcctg gcaaggtacg gacattagc ccacattgt ttacttgttt ?02???
gtactttttaa acttccttct ataggcacaa aaatcagcaa agagaaataa cagagtacct ?02???
agtcaggctg tgtaagcctg tcggaatggat aaatcagcaa agagaaataa cagagtacct ?02???
taaaatccat cagcaaatgg ttgtgtcttta attttcagat ccccaggctg cttttaaact ?02???
taccttccaa tccccaaatc cttctctaga atgtgggctt aaacgtcctt tgtttatggg ?02???
ggatttgcct ttcagaaaat caattcctca catctgttggc ttcaagcttt ttactcaatc ?01???
agcctcttaa caaagtaatt ttttctaattt tcaagggtga cctagttgtta tggtttaag ?02???
tgaacattac attccttac ctgattgtgt atagtaaaaa gtagtgttt cttccagatt ?01???
tggagcctca tatacactct cctgatcttc agtccatattt cctgttacc catgtgccaa ?02???
catacctctt aggtactgg atacaattg acatctcact gaaagtgggg tgttctaagc ?02???
atccattcat catcaagttc agtggttca gataccagga ttgttacttc cttactcaaa ?02???
atggatccct ttagacatcc tgtttcaagg tactacttca ctaagggttta ttatttagt ?02???
gtttctctct tattaaaata tctgtcaaa atcggtaga atcacaaatt ctgataaaa ?02???
ggtcccaat ttagagttt aggagaaatt atcttacatt tctcatcgaa gaactggtat ?01???
tgttgatttta agtgtcttttt ccatcacca tgttcttcat agtaattttt agactgggac ?01???
gaggaatcta ctcctcattt caattcgatt tgattgacc tgcctcgcc caagtctatt ?0????
atcccccacttt ctgacctcgt gttataccag aataaaaga ctgtgagga aacaagacta ?0????
aaggacacca aagtcctgct gatattaaaa gtaatctttct aaagctgata agaatttata ?0????
```

```
gcttccatt ccatatgctt tttggaagtt ttgctttaaa tcttgttac ccaatttttga 2...
ccatactgaa tcatgttata gcatcagata tagacatagc atctcagata tagcctaaac 2...
ctcatcacct ctctccattt ctactgctga gccagagct caggccatct tgcacacacc 2...
acacagtagc ctccttacca gtcacgagtc ctgctatgct ctgctctc tacaaggcta 20354
cttttcacc aaaagacgag gaaaataatt ttcaaatata tatcatgtta tatggctcct 20440
ttccttaaaa ctttaccac ttcctgttg ccagtaaata tacaaatgg ccctcatacc 20346
cctcaatgct gcttccctgt gggatcagct ctcatctctc tttctctagc tcattttctct 2035..
gcagttacac ttgcatcttt gcattccttg agcacagact cgcacttcc tcaagtcact 2035.4
tgcacatgct attccttttac cttgcattt ctatactac agtttatgt gctgtgtgcc 203640
tccttgttat ttaggtctca attcaagtga agccaccttg caaacacat ccttcaaccaa 203760
gcactttaa atctcactcc actcaccag ctcacagtca caattttctt ttttattgta 203760
ctttcatgg tgcttattc tctctgatata ttttttattgg ttgatgatc tagattgagg 203820
ttaccaaact tctgcctaat ggtcaaaatta atccactac ctattttgt acagcccatg 203860
agctaatggt tacactgtaa ttttttaaatg gttgtaataa attaaaagaa gaccatttttg 203940
tgacatgtga aaaattatgag agattaaaat ttcagtgcc ataaagtttt tctggaacat 204000
agctatgctc attttttttat atattatcta tatctgcctc tgcatgacaa caacacagat 204060
aagtagtggc aacacagact atatggatcta caaagcgaaa gatatctatc gtctggcct 204120
ttaaagtaaa gtttgtcaac ccacagtctg gatatgtatt ttcttcatac tttctctagct 204180
cctaaatgtt ctaaaacaac aacttttaa aagcaaaaac catattttgta ttttttattat 204240
attacacagtg cctacaatat actgaaacag agtaagcaca tacatataaa aggttgttta 204300
ttacatcact tggaagttta tcaaaatgtt ctgtgcaatc ataatagcaca ctatgctago 204360
ccatattttca aaagatctgc caataagtaa ggaaaaaaaaa tgcctgcaaa tttaataaaa 204420
taacaactca agcagatctc atataaagtt acacataaac ttattaactt caaaatatttt 204480
aagtgtgtta atttagataa tctctaggttgc tgtaacagat aaactctgaa atctcagtg 204540
tttaatgcaa aagaactttt ttttttgttca ctcagtgatc acttttttgg ctgaaggttc 204600
tggctaagac tcaggctcat gtaccctcca ctgtctactt gggtcttttt ggatttcaac 204660
atccagctaa cagatatggaa ttaaagaaaa tggcaactct gctggatatt tttgaggcat 204720
cagcctagaa gagatgaaca tcacttctgt tgtattccgt tggccagaac ccaattactt 204750
gggctcaatca gaggtaaaac aagctgggaa atgtcatttgc ttggccaagta gccactctcc 204840
aacaacatct ctacaatatg gaaggaaaat aagaatgctt gggaatcagc taattatctt 204900
gtccacaata gacaacttag tctttaaaaa ttatactaa aagatcttat ttttttgaggt 204960
aaggggttgt tgtct agag ctacactgga gataccaatt tctctctttta agatttctc 205020
ttttgaaatat aga caattg aatttttcagt tctatgatca tttcctttta agatttttctc 205080
cacttaaaaa atctgatctg tcactctaat ttatttttcta cattcaaaga atctttatag 205140
gtagatggaa aacacgagga ttaaaaatta taactgcc cagcagaaga cctctcactg 205200
ttagaattgt ttaaatctc tcctgactgg tagccccaa tctttttcaa ctactacaa 205260
tgatttactt ttatataaa tcaaaattcc tgcatatcct cagtagagaa tcaaagtgct 205320
gtattataat ctaaccattt cccaaagaaa ggaaaatttg ctctaatctc caaagtgcaa 205380
tgtctgttca aaaatttttg ccagcttct tttcatcaaa ctgtggaacc agatttctca 205440
gtctactagt ttacataagg cataggcatg aggctagta tcaatcagcc cacttaccct 205500
ggcaatattt tgttttattt ccctacaaaa gattagaaa taaaataggt ttgttacaa 205560
tttctaacta tctactagc ttttgatatg aaagtaccta gcatataagc caagctatac 205620
cacattttt tagagatccc aattttaaaaa tactgctaaa attaataagt agtgctagc 205680
ttgaaggaca actatctta aaaattaagg tgtcttttcta agcacatac atctggctta 205740
cacagattca tcttgctttt ttttcctatc ttgtatgaaa actttggat tttaggcag 205800
ttttataatt tttaaacac atacctgaa cattctatac ataacaaggt gttatattgt 205860
caagtgaatt tcaaacagct ctataatga tacttttttt acagataaatt ttcaacatca 205420
aatgaaaac aggaatgtct tgtagtatac aaacctgtta acttcaact agtactact 205480
ctaataaata tcatttttta tcttactgac aatatgaacc atacactgtg ctaattgttt 206040
tacatgcatt aactaatgta gtctcatag catctatgta ggcaggtaca attgttacat 206100
ccactctaca cactcaggac tgaggacac agaggaagg taacttctct aagctgaaag 206160
ttgttatttta agaaagccta tcttttctaag cattctgcc ctcaggacac agacaagat 20...20
cttgaccata ctggtcgtc tttttaaaa taatacatct taatactcag ttgctttttag 206280
aaaattggtt tgcatgtcaa aggactaatt ctaaaagga agaagaaaga caggaggaa 206400
gtaggaatat ttaaactgtgt ggcaataattg tcaaaaggt agacgaaaga caggaggaa 206460
aagaggaaga ataggaggaa gggaggggaga aaggttgttg tggtattggt gaaatgaaaa 2...120
agaaggagga gaaaggggaaa agaaaaaaaa acttaggac catctatgag gggataaatc 2...120
```

atatttgaca gatattttcc caggttttgta ttgattttat taaataatct tacctttgag 206560
gtccaaaaga cctgtgttct atgtttctgta actaatctac tatataacct attgtttttgt 206620
tagatcattt aatccccta agcctaagtt ttcctatctg taaagcagag aaaataatcc 206680
taagctgcc tgcactatct gcatagtgta aagatgttat aaaagtactg tggagattta 206740
aaaaactaaa caatcccaaa gggagaaaat ttacatcata atatactacc agagtgcttt 206800
taaacactta ttttcagct agaaagctgc ttgagaaagg caactcttc gggaatcc 206860
aatagttgaa atatctaaaa agcacagctt accattagag caaggactag gaagccagcc 206920
ctccttcctc ttccctgtcc ctaatcactt tccatgacgc gttgaaagctc ccacaagtct 206980
cttagttttt cctcgaacac agtcttcttgta aaagcgaggg aactgaacc acactgtctt 207040
gagcaaattc tgtctgtctct gcgcctctac ttcttccctgt gaaaaattaa aaagttggtc 207100
aaaatcattc ttccagtcccc ttccactttct gacattctag aaacgtcatt ttctgtttt 207160
tctgtcattta gaaagcaatg tctcctctca cctttactaa cagcatctt tacagggaac 207220
atggtacata tgcctacact gagtggtaaa ctccatgcag tatcctaaga gacatgctcc 207280
ccgtcagaca tcctatctgt ttcagtatcg ataggttgca ccatttccat gcttggtcac 207340
tgctgcctgg atgtattcat tctgtgccaca aacatttcct gagctgttc tctgggaaaa 207400
gatgttctag acttaagcag gaactcttgta agaagtatgt ttattttcttt cttgtccatg 207460
agaaatctcat agcacctacgg agatatgttg acagacacac aaacagctag accagtgtt 207520
ctaatttgga ctcacaaag gttattgttg ttgttgttggg catgccatgg gacggcct 207580
ggagttggtc tctcctggctc atatctctgtc tccacggcta ccttgtttcc ttttgaaagt 207640
tactttactt tctacgtctc gctttcttca tactttaaaat tgaaaacaact ttaaaaagtc 207700
cacttggcag gttttgtgag gatgaaaatca gttaaaacat aaaaaaccct ttaaaaagtc 207760
cctgaaatgc aacattcag taaatgataa ctaatatgat ttcaagtcta gaccccaatc 207820
ccttcttagg acgacaacca tagtcagctaa atgcagctctc tggagaagaga ttcttcaggt 207880
tccagacaa gctcaaccac tttgcagcta cttcacctcg ggcaagttaa cacactccca 207940
caggcagac gaaatgcaat gaaaactttt gaaaacttag cctctgacat agcaagagca 208000
tcattcattc tggccattat tgtttgttaat ggctacagaga ttacaggaaa aactatttcc 208060
aactgaagga actgggaaag acatgaattt gaaggtgaca tttcactctga ccatttggca 208120
aatgctctcag ttttgtgag cctatgctga gttctggctg ttgatagacc tgttcatcc 208180
aatgtatatg cacttctagt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 208240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 208300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 208360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 208420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 208480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 208540
nnnnctactg ccttttttggg ctaactaat cttccaccca ggaccacag aacttaaaca 208600
tcttggagag tcctgtgtt catatcttgg ctcatatttct cccaacttt aaaggttttt 208660
gtccagaaca ttcatctctc atgatatataa gccctgattc ctcctgttgt attttttccct 208720
gttaaaatc cacacttgg cttttgtttc tctgaactcc ttaggcccac tcactgtca 208780
cttctgctgc catgtctatgt cttccatgg tagacaagag gcgttctcag agcaagcct 208840
atctctaga cttcctttgca tcttgttaac cctgtctgac actaagaac actaatgttt 208900
tagctcagag ccttgttcac aatagcagtt caattaatat ttcttgaaag acctttggaaa 208960
atgaattagt ataaataacc tactcaaatt ttaaaaatta atattgtcaa ccataatttt 209020
tagctaatcc catatattca atattctaat agtttatact tggagacaga agaaatttt 209080
aaaaatcaag tataaacaac cctcatagga agttaaatct acatgtaaaa atacattaa 209140
cctaaaata aagtaaaaga atgtaatgtt taaatctat gattccaact atagttcaja 209200
attagttcac tgaagtgcat ggtttgcaga cattgggaa acaggagttt tacctgtga 209260
acaactgcaa ttgaattaaat cctatgttct tgccttgcat tgtacaaaac agactggctg 209320
tgaaaaaatt ttaacccttta cctctcagag gttgccaatt ccaaactgaa ccaattattg 209380
tttggttttt tcctgtgag aaaattgggg caactgaaa agccctgtct tcttactgt 209440
ttctttgtttc caaatttta gattccggtga tgtccaattt tttcatgact tctactggt 209500
ctatcctgg aatttactgt gttgtctaga gcaggccagt tcagagagaa gtggctcacc 209560
tgaacttct actctcttct cattacaaga ttcgttactg aaatgaagat tatactgttag 209620
ttcctgcagc tactgactgggg gcataatttc aagtgttcag aacacaacat 209680
aatatgtcac aacaatccta gtgagtactc agtctttcat caaggttact tggattta 209740
gttaggccag tacaaggggtt ttccactcagg actgaaatgc cctgaaaatg agaggtctg 209800
ctgtgtaata gataaaagca gcaagtgaa aaggaatgc cctgaaaatg agaggtctg 209840

```
agtttttcact ctgtatctct taattttact gtctcatctt ttgtacctt gggtaactta :10000
cttactttct cttgagcag ttttccrata tttaaaacat aagaaagaca ctaaatttjtg :10010
ctggtt'tca tctitcctcc ctcaitagaa gctatttta aagaaagtcc aatacataaa :10020
gtagcttaa gtgaaggtgc tgtaattttc agtgactgtt catgaaaaac ctggagcctg :10030
tttaggttct attttctctt caagcatjacc ccagacttat ttccaaaaaa atacaaaata :10040
tcctggtaca taatttttaa agctctatct catatctcag tgaataaaca ttcttatttt :10050
aacaaagttt gcttccttaa catcaugtacag ttgtaaggg gtattjagtg aagacattta :10060
ggaagtaat tgagggtta aacaacttct ccccagtatca acctcicata atattatgct :10070
atgcaaact cctcctacc atgtgtat ccctataccc acattttgct atctcccat :10080
ttct tttca ggaaaataact tattgttgtct tcaagaagaa cggaactcag tttgagggca :10090
atgacgtta cgagggtac tgtgtaaagc tggcggtaca gattttaaga cacttgggt :10100
actcctaacg tctgaaatt gtcattgata gaaaatacag agtcccagac cctgacacga :10110
aggcctggaa tggccatgat ggagagctgg tctattgaat aagttcacta caggtgtgga :10120
aattagggag cggaaggcaa gggtttgaca ggaaattatt tgtgtggttga gtagcctgc :10130
ccacagatgt ctatgaaaac ctgtaattga gtgttattgc tgctgaaaag atgagtcatc :10140
caaaatccaa tttcttcaga cactcttgt tcagcttact ggtccaggt cctcaatcc :10150
cactcagtat cttctgtca cagttgattg tcgtccaaca cagatgacag catatctcca :10160
agatcaattt tgttgagaaa gactgctgag ttgtctatat aaaatcactt gtggctctct :10170
cagtatcatt ttcttctctg atattaaatg catctgttg caacctaact ttctagttac :11000
ttgcctcttt agtttaatgc tctcttatga aatttcaat tcagtcaaat gcccttaat :11010
tactctgttc cctagatgtc tcctttccac tctcaacacc taagatacta ctccttcaaa :11020
acctatatca aataaatactt ttttcaggtt gtgttttttt cttctctctc ataataagta :11030
tgaatgtgcc ttttaattct tctcgcctt ccctatagaa tttagttgtt ggtttttttt :11040
aatggtttac cctgccttat ataagcgtta cctgtctaac aggggtagga ctattctatc :11050
ttataautgc tcaccacact tgaaataact ccatgcacaa ttgctataaa atcttcaata :11060
aattacagca gttttgaaaa gctcctgaat gtcccacatt gtttaagca tttgggtaat :11070
tattgagaag caaaagatt gatcttttgc ttaatacttt atgaggtaga aaagaccca :11080
tcttttaaca ttttatgggg tagaaaagac aaggggtaac tagattttgt ctagcctca :11090
aataaggagt ctatattgta tggttcatgct aagggctaac tagattttgt ctagcctca :11100
gtgggtatat gaaactttaa aaataaccat atttaaacag acgagagggc cggacacct :11110
gactcatgcc tatatatcca gtacttgttg aaggcagcc aggtgactca cctgaggtca :11120
ggaatttgag actagcctgg ccaaatcct gaaaccacat ctttacaaaa aatacaaaa :11130
ttagctgac atgtgtggg gcaactctat tccagctga ttggagggct tcgaactcca :11140
aatcacttga accaaggaga tagaggttgc agtgagccaa gatcatgcca ctatgagaga :12040
gctggtgaga caagagcgaa actcgtctctc aaaaatgata ataaaaaca tatgagagaa :12050
aagcagccca ggaatttta aattataaac aataggatgg tgttggaaaa aagtaaggtg :12060
ttagatgaga atgacaaaac gtatggtttt tgtttaggac ttggttgaa gagtagtcag :12070
ggatacatat gagtaaaaaa tagcaagatg aagattgtgj atgattcagt gggccattggg :12080
agatcacgaa ggtattttaa tagagaagaca acaaaaggca atgaaagaag cctccagtcg :12090
cctttgtcag gggaggggacc accaggactt cactcataga aactaaaaca catgccaagc :12100
cccacgtcaa tgttaagtgc tcataagaac aagcagcar ttatgaaaat aataaatctt :12110
gtttcatatc aggggcaagag gagcccatgat gggcctgaga gacatacaaa gggaattcaa :12120
agacaaaaaa gatcgaataa agagaaatctt cctcagggag gtagttttttg agatgacatg :12130
tgaatttggt tattgagttga gggaggtgua tgtgcttctc tctttcttta ttccctttac :12140
cacctttcaa ttgggaagg tcatgaca aaatttgag actggataq tacatgctgc :12150
attaggaagc tgtttttcat gggaacttctc atcaagctct tagggtcatc cccatggcaa :12160
ctgctgtgca ctttttcacct tctcttctagt ttatttcag cttacctcca ttgaatatgtt :12170
tttgttttggt taaaagttct caattgtatcc agacaatgc aaggatcatc cccagtagcc :12180
aacacaatg ctggttagttc actggacttg caggttactcaag gccagctgga gttacctatc :12190
ggtgcctcag cagccaggcc tgcgtcagta gcctcttcct tatcaaggtc attctctctac :12200
ccagtaaaaa cttttctgac caattgcggt ttgtcatcgc tgtaatccca gcacttttggj :12210
aggtcgaggc gggtggatca ccaggtcaag agatccagac catcctggcc aacacagtga :12220
aaccccatct ctactaagaa tacaaaaaat tagccaggca tggtagtggg cgcctgtcat :12230
ccttggaatt cgggaggtga ctagttgagg caggagaatg gcgtgaactc ggaggggaggg :12240
cttggaatga gccaagatag tgnnnnannn nnnnnnnn nnnnnnnnnn nnnnnnnnnn :12250
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn :12260
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn :12270
```

nunnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 213420
213456
nunnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnn

<210> 4
<211> 434
<212> PRT
<213> Human

<400> 4
Met Gln His Ile Phe Ala Phe Phe Cys Thr Gly Phe Leu Gly Ala Val
1   5   10   15

Val Gly Ala Asn Phe Pro Asn Asn Ile Gln Ile Gly Gly Leu Phe Pro
            20   25   30

Asn Gln Gln Ser Gln Glu His Ala Ala Phe Arg Phe Ala Leu Ser Gln
        35   40   45

Leu Thr Glu Pro Pro Lys Leu Leu Pro Gln Ile Asp Ile Val Asn Ile
    50   55   60

Ser Asp Ser Phe Glu Met Thr Tyr Arg Phe Cys Ser Gln Phe Ser Lys
65   70   75   80

Gly Val Tyr Ala Ile Phe Gly Phe Tyr Glu Arg Arg Thr Val Asn Met
                85   90   95

Leu Thr Ser Phe Cys Gly Ala Leu His Val Cys Phe Ile Thr Pro Ser
            100   105   110

Phe Pro Val Asp Thr Ser Asn Gln Phe Val Leu Gln Leu Arg Pro Glu
        115   120   125

Leu Gln Asp Ala Leu Ile Ser Ile Ile Asp His Tyr Lys Trp Gln Lys
    130   135   140

Phe Val Tyr Ile Tyr Asp Ala Asp Arg Gly Leu Ser Val Leu Gln Lys
145   150   155   160

Val Leu Asp Thr Ala Ala Glu Lys Asn Trp Gln Val Thr Ala Val Asn
                165   170   175

Ile Leu Thr Thr Thr Glu Glu Gly Tyr Arg Met Leu Phe Gln Asp Leu
            180   185   190

Glu Lys Lys Lys Glu Arg Leu Val Val Val Asp Cys Glu Ser Glu Arg
            195   200   205

Leu Asn Ala Ile Leu Gly Gln Ile Ile Lys Leu Glu Lys Asn Gly Ile
    210   215   220

Gly Tyr His Tyr Ile Leu Ala Asn Leu Gly Phe Met Asp Ile Asp Leu
225   230   235   240

Asn Lys Phe Lys Glu Ser Gly Ala Asn Val Thr Gly Phe Gln Leu Val
                245   250   255

Asn Tyr Thr Asp Thr Ile Pro Ala Lys Ile Met Gln Gln Trp Lys Asn
            260   265   270

Ser Asp Ala Arg Asp His Thr Arg Val Asp Trp Lys Arg Pro Lys Tyr
    275   280   285

Thr Ser Ala Leu Thr Tyr Asp Gly Val Lys Val Met Ala Glu Ala Phe
    290   295   300

Gln Ser Leu Arg Arg Gln Arg Ile Asp Ile Ser Arg Arg Gly Asn Ala
305   310   315   320

Gly Asp Cys Leu Ala Asn Pro Ala Val Pro Trp Gly Gln Gly Ile Asp
                325   330   335

Ile Gln Arg Ala Leu Gln Gln Val Arg Phe Glu Gly Leu Thr Gly Asn
            340   345   350

Val Gln Phe Asn Glu Lys Gly Arg Arg Thr Asn Tyr Thr Leu His Val
        355   360   365

Ile Glu Met Lys His Asp Gly Ile Arg Lys Ile Gly Tyr Trp Asn Glu
        370   375   380

127

```
Asp Asp Lys Phe Val Pro Ala Ala Thr Asp Ala Gln Ala Gly Gly Asp
385                 390                 395                     400
Asn Ser Ser Val Gln Asn Arg Thr Tyr Ile Val Thr Thr Ile Leu Glu
                405                     410                 415
Asp Pro Tyr Val Met Leu Lys Lys Asn Ala Asn Gln Phe Glu Gly Asn
            420                 425                 430
Asp Arg Tyr Glu Gly Tyr Cys Val Glu Leu Ala Ala Glu Ile Ala Lys
        435             440                 445
His Val Gly Tyr Ser Tyr Arg Leu Glu Ile Val Ser Asp Gly Lys Tyr
    450             455                 460
Gly Ala Arg Asp Pro Asp Thr Lys Ala Trp Asn Gly Met Val Gly Glu
465             470                 475                     430
Leu Val Tyr Gly
```